

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 735

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ngggtagact ttgacttgga gaaaaccaag atncttgcn gcttggtcctt ggtggtggcc 720
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<210> 736

<211> 1099

<212> DNA

<213> Homo sapiens

<400> 736

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<210> 737

<211> 3219

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (3212)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3215)  
<223> n equals a,t,g, or c

<400> 737

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<210> 738

<211> 849

<212> DNA

<213> Homo sapiens

<400> 738

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cgggcggtgg tgccgccaag accggtgcgg agctcgtgac ctgcgggtcg gtgctgaagc 180  
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gtggatggat ggggtggatg aggggtggcag gtggggcgct tgcaggggcca ctcttggcag 780  
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<210> 739

<211> 2069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<400> 739

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ctgttcctac tcaataaata cttcttctac tccgccaccg ggaaaacaga aaaaaaaac 360  
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<210> 740

<211> 1567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1548)

<223> n equals a,t,g, or c

<400> 740

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cgcttccaga ggcgcgatgca gcggctgata gagaagtaca accagccctt cgaggacacc 240  
ccggtggtgc aaatggccac gctgacctac gagacgccac agggattgag aatttggggt 300  
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<210> 741

<211> 2829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1728)

<223> n equals a,t,g, or c

<400> 741

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aaaaaaaaa 2829

&lt;210&gt; 742

&lt;211&gt; 926

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<400> 742

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<210> 743

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 743

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caagcagtgc cagaggccct cagaaaggga ttagggtaga tgattgcaac tgaaacacaa 840
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attactgcag tcttgatgt ctaccccaaa cttccacacc atccttcgac ccacagctgc 960  
acctttattt atttatattg ctccagcctg ggggacagag tgagacttcg tctcggg 1017

<210> 744

<211> 361

<212> DNA

<213> Homo sapiens

<400> 744

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ccggcatgga ggatccacag agtaaagagc ctgccggcga ggccgtgggt ctccgctgc 180  
tggagtcgcc gcggccggag ggcggggagg agccgccgcg tcccagtcgc gaggaaactc 240  
aacagtgtaa atttgatggc caggagacaa aaggatccaa gttcattacc tccagtgcga 300  
gtgacttcag tgacccgggt tacaagaga ttgccattac gaatggctgt attaatagaa 360  
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<210> 745

<211> 1936

<212> DNA

<213> Homo sapiens

<400> 745

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caataaatac cacttttaaa aatgacacat atttaaacac ttagaaaata aagttaacac 180  
ttactgaagt gctagtacta aactgtgcta gtactaaaag aaaacagggt ggaacataca 240  
tatagcctag catttataac agaattgttg aacgysygya aatgattttt tttttttttt 300  
gcaaaggaaa aaattgatac tggaaaagat tggtgtgcat agttattagt catttgtaac 360  
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caactatatg aaaccttggt cattcctccg agtactgtaa tggtcacact tgtacaatct 1800  
tccctgtcat gactttaagt tctacttttc attaacccatg gcctgatatt agttcttaga 1860  
gcttcttggtg gcaaaaataa aatgatttaa ttctgaaaaa aaaaaaaaaa aaaaaaaaaa 1920  
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<210> 746

<211> 1619

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1568)

<223> n equals a,t,g, or c

<400> 746

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tccgagtctc cgccgctgcg ggcccgtccc gacgcggaag atctgactgc agccatgagc 180  
agcaatgagt gcttcaagtg tggacgatct ggccactggg cccgggaatg tcctactggg 240  
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cttccagata tttgttatcg ctgtggtgag tctggtcatc ttgccaagga ttgtgatctt 360  
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gccaagaga gagcgagagc aatgctgcta caactgtggc aaaccaggcc atctggctcg 480  
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ggganannaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1619

<210> 747

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 747

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gcagcgcaca ctggactctt gaggaagaag gagactctaa ttttgattc cttggtggag 180  
gaaaataaaa cactctgggc ttgccgccaa cgatgcaagt gtgactgctg gcgtcttcat 240  
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gggagacata ggaggcattg ctcaaatacac ctccctctcta ttccctgggca gaggcagtgt 360  
ggcctccaat cggcacctyc tccaggctcg tgggcatcac ctgcattgtt aatgstacca 420  
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gccccattgg nt 492

<210> 748

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 748

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gcgggaagaa gaaggaggag ctgctgaaac agctggacga cctgaagggtg gagctgtccc 180  
agctgcgcgt cgccaaagtg acaggcgggtg cggcctccaa gctctctaag atccgagtcg 240



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tag
tag 603

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&lt;210&gt; 749

&lt;211&gt; 2045

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 749

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aaaaa
aaaaa 2045

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&lt;210&gt; 750

<211> 1144  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1127)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1130)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1137)  
<223> n equals a,t,g, or c

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tcgttggaag tggtgtttac agtaatcctt accaagataa catactgtcc tccagaatac 180  
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gaac 1144

<210> 751  
<211> 1598  
<212> DNA  
<213> Homo sapiens

<400> 751  
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cttctgtcgg ccctgctctc tgctgccttc ctactcgtga ggaaactgcc gccgctctgc 180  
cacggctctg ccacccaacg cgaagacggt aacccggtgtg actttgactg gagagaagtg 240  
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accattgatg aggaactaga acgggacaag agggtcactt ggattgtgga gttctttgcc 420  
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aactgtacag ggctaaattt tgggaagggt gatgttggac gctatactga tgttagtacg 540  
cggtagaaaag tgagcacatc acccctcacc aagcaactcc ctaccctgat cctgttccaa 600  
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<210> 752  
<211> 1485  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (243)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1436)

<223> n equals a,t,g, or c

<400> 752

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<210> 753

<211> 1756

<212> DNA

<213> Homo sapiens

<220>

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<222> (1740)

<223> n equals a,t,g, or c

<220>

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<222> (1756)

<223> n equals a,t,g, or c

<400> 753

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&lt;210&gt; 754

&lt;211&gt; 1795

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

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&lt;210&gt; 755

&lt;211&gt; 1280

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 755

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&lt;210&gt; 756

&lt;211&gt; 3665

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 756

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<213> Homo sapiens

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<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

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<211> 2496

<212> DNA

<213> Homo sapiens

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<211> 2048

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (1963)

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<221> misc feature

<222> (2006)

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&lt;210&gt; 761

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1728)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 761

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<222> (920)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (4433)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (4446)

<223> n equals a,t,g, or c

<400> 762

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<211> 2890

<212> DNA

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<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 763

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<211> 1703

<212> DNA

<213> Homo sapiens

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<222> (860)

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<400> 764

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<210> 765

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<400> 765

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attgcaaagc ttaagtaaaa acaagtctcg accganatcc ttcattgatga gagatttggg 180
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caaaaccttt ctccaggacc tt 262
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<210> 766



<211> 3072

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3072)

<223> n equals a,t,g, or c

<400> 766

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<210> 767

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<400> 767

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<210> 768

<211> 1532

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1523)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 768

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gtggtccaga ttggttttag gtngtcttgg ac 1532
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&lt;210&gt; 769

&lt;211&gt; 2569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 769

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<210> 770

<211> 1637

<212> DNA

<213> Homo sapiens

<400> 770

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aaaaaaaaa aactcga 1637

<210> 771

<211> 2485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2479)

<223> n equals a,t,g, or c

<400> 771

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<210> 772

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<400> 772

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accgtgggcc ctcacagcat tgccctacct cccgaggata ggacagtcaa agacagcacc 180
ccaagttctc tggactcaga tcctctgatg gccatgctgc tgaaaacttca agaagctgcc 240
aactacattg agtctccaga tcgagaaacc atcctggacc ccaaccttca ggcaacactt 300
taagggttcg gcaatcactg tcacccccgg acagcagaac gcttggcatc agcttatctt 360
tagctcctcc ttcttccnct tctccttctt ttcaagagca cttggctctt ccagcccca 420
ggaggaagaa ca                                     432
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<210> 773

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 773

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ttagcagagt accactagta atgcacaaac atgtacaata tggtcattca taaccgattt 180
ttatagaata ctttttacat gtgcaactcc atccgttatg taaggattac atgaatattg 240
cacattccct tctggtttca caaacccatt tatacatatt tcttagtgag gctcattgta 300
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catgtattga agctagaatc gagtcaagaa aaataaagcc ccattctcca actgcaaaat 360  
gtgctttccc ataatgaaca ctagtcacca gcacagaata atctccaaca ttttctaaat 420  
tctaattgcc aactgtttct atttatatatt gatttatatt tcatttggag tctgttacat 480  
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aatgatccac ctcatatgtg agtccgtcca aaagatgtta ctgctctggg tgggccagtg 900  
ttctatatcg gttatactaa ctttcattta aagtatttat tctaaaatgc ctctgagaaa 960  
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<210> 774

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 774

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tacagccacg atcgscacac tacagaagaa cgcgccgagcc gcggccgccg tgtatggagg 180  
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cgtctaccag acatactgag gctgggtgacc agcacgaaga cagaccacac aaacaccact 300  
gaaggaacgc ttgactatth atgaagaagg aacatggttg attcacacat gcaacctgaa 360  
agtgaagaat gttagcagat ttatttctga attattttat atacatgaag tttcactag 420  
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atggttcgtg ccttcattcc atctttttaa aatttgtagt ctgtactaca ttgtataga 540  
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ctgcactcca gagatttcta ttttgtagta ctttcaataa tatatcaact atatattaaa 660  
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cawtttttaa atgrgtaaaa ccyctgtatt tcygctggca ttaagggtkg atggtgttac 840  
catgtatcat catggcggtg ctatttttta aaagaaatta aacactggat ctctccttaa 900  
gccaacattg aaaagacttg ccgcacttct gagtccaaac actggaaagc tctcctttgc 960  
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<210> 775

<211> 2248

<212> DNA

<213> Homo sapiens

<400> 775

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ccgaakccca kgakcccggg gcgcccgcgg cgggcatgag gcggcgccgg cggctgcagc 180  
aagaggacgg catctccttc gagtaccacc gctaccccca gctgcgcgag gcgctcgtgt 240  
ccgtgtggct gcagtgcacc gccatcagca ggattttacac ggtggggcgc agcttcgagg 300  
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ttttcttggc ccagtacctg tgcaacgaat accagaaggg gaacgagaca attgtcaacc 480  
tgatccacag taccgcgcat caccatcatgc cttccctgaa cccagatggc tttgagaagg 540  
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acactactta aaagtttagg gttttctctt gggtgtagag tggcccagaa ttgcattctg 2160  
aatgaataaa ggtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220  
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<210> 776

<211> 1605

<212> DNA

<213> Homo sapiens

<400> 776

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gggatccttg tggcccttcc ggtcgrtgga accaatccgt gcacagagaa gcggggcgaa 180  
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aaaccggttc gccgagccca gcgagcttga caacccttt caggacccag ctgtgatcca 360  
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gccaccacca gcctatgagc ctccagcccc tgccccattg cctccaccct cagctccctc 480



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<210> 777

<211> 1808

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1806)

<223> n equals a,t,g, or c

<400> 777

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ccacccctct ggaggccatg aaaggaccca gggaagagat cgtctacctg ccctgcattt 180  
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<210> 778

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1479)

<223> n equals a,t,g, or c

<400> 778

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gcttgagttt tgattcatca tggataatct gtcacagaa gaaattcaac agagagctca 180  
ccagattact gatgagtctc tggaaagtac gaggagaatc ctgggttttag ccattgagtc 240  
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gtctggcaag gcttataaga caacatgggg agatgggtgga gaaaactcac cttgcaatgt 480  
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agttttcttt cttttttttt ttttngggag tcagagtctc gctcycytgk ccmrggctgg 1440  
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<210> 779

<211> 1343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 779

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gaatgcgtgt gcctccacac gggctctgggc atccggactg ataaccagcc ggccagactg 180  
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<210> 780

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

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<222> (258)

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agacactgtc tctacaaaaa aaaggaagga agggacacat atcaaactgn aacaaaatta 180  
gaaatgtaat tatgttctaa gtgcctccaa gttcaaaact tattnaatg ttgagagttt 240  
ggttacggaa ttcggttngg ggggccaaag gggtgtttta gnttttnaat nccggtntnt 300  
ttcgggnaac ccttggaat ttttggggct ccttgtagnn nncccccttt nggagggggg 360  
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aagagagcga gaccctgtct caataaataa ataaataaat aaataaataa ataaataaaa 180  
acaaagttga ttaagaaagg aagtataggc caggcacagt ggctcacacc tgtaatcctt 240  
gcatttttga aggctgaggc aggaggatca ctttaggcct ggtgtgttca agaccagcct 300  
ggtcaacata gtgaggacac tgtctcttac caaaaaaagg aggggaagga cacatttcaa 360  
atgaaacaaa ttagaatgtt atttatgttc taagtgcctc cagttcaaaa ttttttggat 420  
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tcctgcctcc gcctcctgag tagctgggat tataggcaca caccaccacg cccagctaat 180
tttttgtatt tttagtagag acagagtttc accatgttgg ccaggctggg cttggaactc 240
ctggaccttg tggatccacc cacctcggcc tcccagagtg ctggggatta cagggcattg 300
gccaccacgg cttgggctna aggaacacct aanttttatg tttcttgggn tcaaaaacca 360
gtttccattc nnangttgtc ctcacaagan ggttantggt ggtggagaca gcaggggagg 420
gaggggaagag ngtggtttgt aantggttca antcaggcan taagcgattt tagctttaat 480
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agcgggctga cgggcgcatc gtcaagatgn aggtggacta cagcgccacg gtggatcagc 180

gcctaccgga gtgtgcgant agccaaggaa ggaagacttc aagaagtcac tgaaaccctt 240  
ctctctctgg aaaagcagac tcgtactgct tccgatatgg tatcgacatc ccgtatctta 300  
gttgccagta gtggaagatg tgctaatan ggctaaaaga atgggattta anttaatgna 360  
aaatgattat gcntttgtcc caaaaggcgg attcagttta aaacaagctg ttgccccaaa 420  
tggttncaac atggncgtac nttatgtttg aaggaaantc acagaacntt cccatccaaa 480  
cnttngattn aattgataat cccacgaatg ggtttaccga ggccaagatt ttatgttgga 540  
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aagcgtgaca ttcaggaaaa cgatgaagag gcagtgcgaag tcaaagagca gagcatcctg 180  
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<211> 356

<212> DNA

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gagcagggtt tccccttgga cctcggagca agtttcaccg aagatgctcc cccgancccn 180
agtgcctggt gaggaggag aactggtgtc cacagaccg agggccgcca gctacagttt 240
ctgctccggg naangtggtg gcattaaagg tgagacttcg acggccactc cgaagcgctc 300
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 ccctctgcag caatggccac cggcgggctg ccacacggac ttccccctgg ggacggcant 180  
 tccccagcag gacttacccc ggaccctggg tcttgaggga agtgctgagc agcaggggac 240  
 tgttcaccct gccctgccgg ttccctnccg ggtttccatc cccacccggg ggcccaattt 300  
 acccatnnct ttccctngnc ccattcagat gcagccgnaa gttncggnnc gttncattaa 360  
 ccaagggggtt tatgccaaacc ggttntctgga tgccaaagga ggcccaagtc aaaggggggn 420  
 aaggagggttg tgggcccccg aaaaggaccg gcaaccanac tttgattang gggtttggga 480  
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<210> 787



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 gctaaaaatcc ttatttgtcc ggaaagttga tccaagaaaa gatgccact ccaatctcct 180  
 atccaaaaag gaaacaagca atctatacaa attacagttt cacaatgtta aaccggaatg 240  
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gcgtctgccc tggagcagtt cgtgaacagt gtccgacagc tctcagctca aggtttgtga 120  
agttttctat gccagtggt cctgacttcg aaacgctatt ctcacagggt cagctcttca 180  
tcagcacttg taatggggag cacattcgat atgcaacaga cacttttgct gggctttgcc 240  
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tccacctctg gggcgcatcc caaccttcca gcctgcgacc tgcggagaaa aaaaattact 180  
tattttcttg ccccatatcat accttgaggc gagcaaaaaa attaaatttt aacctgagg 240  
gaaatcgtgc acatccaggc tggtcagtgt ggcaaccaga tcggtgcca gttctgggag 300  
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ctgccagctg ggaccgcatn ttctgtgtac tgacaatgga agccacaggt ggnaaatgat 420  
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ttcaggtccc ttttgggcca ntgttttaga ccangaa 518

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<212> DNA  
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tgcgttttgg gccgggggtc gcttttccgg cgcccagcat tcacgggggc tccggcgcc 180  
gcggcgatc cgtgtcctcc gcccgctttg tgtcctcgtc ctccctcggg ggctacggcg 240  
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<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 791

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ttttgctttg ctggacttct tataggccag actgaagtgg atatcatgag tnatgctaca 120
caggctatat ttgaaatact ggagaaatcc tggttgcccc agaattgtac actggttgat 180
atgaagattg aatttggtgt tgatgtaacc accaaagaaa ttgttcctgc tgatgttatt 240
gacaatgatt cctggagact ctggccatca ggagatcgaa gccaacagaa agacaaacag 300
tcttatcggg acctcaaaga agtnactcct gaagggctcc aaatggtaaa gagaaacttt 360
gagtgggttg cagagagagt agagttgctt ttgaaatcag anagtcagtg cagggttgta 420
gtgttgangg gctctacttc tgatcttggt cactgtgaaa aaatccagga 470
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<210> 792

<211> 428

<212> DNA

<213> Homo sapiens

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<222> (422)

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<400> 792

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ccgggcattg ctgacaggat gcagaangag atcaccgcc tggcgcccag caccatgaag 120
atcaagatca tcgcaccccc agagcgcaag tactcggtgt ggatcggtgg ctccatcctg 180
gcctcactgt ccaccttcca gcanatntgg attacaagca ggagtacnac aantcgggnc 240
cctccatcgt ccaccgcaa tgcttctaac ngactcncan atgcttacca ttgctgcatg 300
ggttaattaa naataaaaaan ttgcccctg gcaaatgcac acacctcatg cttacctccc 360
caaaattgga ataanccttc caaaaaaaaa ntgttcctta aaacttggtt tcttaatttc 420
nnccttggtg                                     428
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<210> 793

<211> 526

<212> DNA

<213> Homo sapiens

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<220>

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<222> (170)

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<222> (303)

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<222> (327)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (329)

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<221> misc feature

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<221> misc feature

<222> (522)

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<400> 793

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ccgtcctgca gcagtctgcc tcctctttca acatgacaga tgccgctgtg tccttcgcca 120
aggacttcct ggcaggtgga gtggccgcag ccatctcaag acggcgggtan gcccatcgag 180
cgggtcaagc tgctgctgca gttgcaatgc cagcaagcag atcactgcag ataagcaatg 240
caaaggcatt atagactgcg tgggtccgtat tccaaggag caggattctg tccttctggc 300
gcngtaactg gccatgtcat cagatantnc ccancaggt tcttaatttc gnccttcaag 360
nttaatacaa gcanatnttc nggggtggtg tggnacanga gaaccattt tggggctaan 420
ttgcagggaa tttgggcatac ggggtggttcc nccgggggcca aattccnggg ttttgngtaa 480
cccctggaat ttgcccgtaa ccgtttaana ttgatttggg gnaaaa 526
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<210> 794

<211> 458

<212> DNA

<213> Homo sapiens

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<222> (377)

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<221> misc feature

<222> (398)

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<222> (427)

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<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (443)

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<400> 794

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gaaggaggaa aggggtgctgc tggtcctcct ggccacactg gtgctgctgg tactcctggt 180
ctgcaaggaa tgcctggaga aagaggaggt cttggaagtc ctggtccaaa gggatgacaag 240
ggtgaaccag gcggtccagg tgctgatggt gtcccaggga aagatggccc aaggggtcct 300
antggtccta ttggtcctcc tggcccagtt ggccagcctg gagataaagg gtgaagggtgg 360
tgcccccgga tttccangta taagttggac ctgtggtnag cctggtgaga gaggtgaaat 420
ggccttnacg gacngttggt ttncctggtg ttccctgga 458
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<210> 795

<211> 497

<212> DNA

<213> Homo sapiens

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<222> (238)

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<222> (439)

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<222> (492)

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<400> 795

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ctcagcctgc cgagccgcag tttccgtggt gtgagtaagt ccgggcccggt gtcccctctc 120
ccgccgccgc catgggctgc acgttgagcg ccgaagacaa ggcggcagtg gagcgatgaa 180
gnatgatcga ccgcaactta cgggaggacg gggaaaaagc ggccaaagaa gtgnaagntg 240
ctgctacttc ggtgctggag aatctgggta aaagcaccat ttgtgagaca gatgaaaatc 300
atttcacgag gntgggtatt cagaggtnga atgttaaaca atattaaagt tagtntnttt 360
ncagcatnnt tgtnncagtg ccntcattgc aatnttnagt ggccttgga ngggtnaaaa 420
aattgatttt ggggaantnt cncagggcaa ttgttgcccg gcaattnttt nttntagntn 480
gtcanttttt tngaggg                                     497
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<210> 796

<211> 497

<212> DNA

<213> Homo sapiens

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<222> (330)

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<220>

<221> misc feature

<222> (334)

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<220>

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<222> (385)

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<220>  
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tagataaggc tggcacctgg gcccccgagg agctgggtgt ggtggtccag gtgcataacc 180  
ggcccgaata cctcagactg ctgctggact cacttcgaaa agcccaggga attgacaacg 240  
tcctcgtcat ctttagccat gattctgggtc gaccgagatc aatcagttga tcgccggggt 300  
tgantttctgt tccggttttg cagggtgtttn tttncntttc aagcattcaa ttgttancct 360  
aacgagtttt ccagtaagtg gaccncagag gatttntccc agagaacntn ccgaagaatg 420  
cccttttttna aattgggggc ancaaattga ggtttcccgn tttttgggca ttttaaggggg 480  
gggcnaattt ttccagg 497

<210> 797  
<211> 589  
<212> DNA  
<213> Homo sapiens

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<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (493)  
<223> n equals a,t,g, or c

<220>  
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<222> (495)  
<223> n equals a,t,g, or c

<220>  
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<222> (536)  
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<220>  
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<222> (538)  
<223> n equals a,t,g, or c

<220>  
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<222> (580)  
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<400> 797  
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gacgtcatag ctcttctata gagtcaccta aattcaattc actggccgctc gttttacaac 120  
gtcgtgactg ggaaaaccct ggcggtaccc aacttaatcg ccttgacgca catccccctt 180  
tcgccagctg gcgtaatagc gaagaggccc gcaccgatcg cccttcccaa cagttgcgca 240  
nctgaatggc gaatgggacg cgccctgtag cggcgcatga agcgcggcgg gtgtggtggt 300  
tacgcgcagt gaaccgctac acttgccagc gccctagcgc ccgctccttt cgctttcttc 360  
ccttcctttc tcgccacggt cgccggcttt ccccgtaag ctctaaatcg ggggctcctt 420  
tanggttccg atttagtgct ttacgggcac ctcgacccca aaaaaacttg attangggta 480  
atggntcacg tantngggcc atcgccctga tagacgggtt ttcgcctttg acgttngngt 540

ccacgttctt aataagtggg atcttgttca aaactggaan aacactcaa

589

<210> 798

<211> 169

<212> DNA

<213> Homo sapiens

<220>

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<222> (23)

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<222> (28)

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<222> (42)

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<222> (165)

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<220>

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<222> (168)

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<220>

<221> misc feature

<222> (169)

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<400> 798

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atccaagctt acgtacngcg catgcacgtc atagctcttc tatagtgtca cctaaattca 120  
attcactggc cgtcggtttta caacgtcgtg actgggaaaa cncntngnn 169

<210> 799

<211> 112

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (111)

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<400> 799

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agctaaattc aattcactgg ccgtcggtttt acaacgtcgt gantgggaan nc 112

<210> 800

<211> 424

<212> DNA

<213> Homo sapiens

<220>

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<222> (372)

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<220>



<221> misc feature  
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<222> (395)  
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cgtcagatcc cattcaactc agacgcttac ctgtaattct gatggcgaat ggggtgtataa 120  
caccttctgt atctacaaac gatgcagaca cccaggagag ttacgtaatg ggcaagtaga 180  
gattaagaca gatttatctt ttggatcaca aatagaattc agctgttcag aaggattttt 240  
cttaattggc tcaaccacta gtcgttgtga agtccaagat agaggagttg gctggagtca 300  
tcctctccca caatgtgaaa ttgtccaagt gtaagcctcc tccagacatc aggaatggga 360  
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accc 424

<210> 801  
<211> 249  
<212> DNA  
<213> Homo sapiens

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<222> (101)  
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<220>  
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<220>  
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antgcagaag gccatcgggg ccgtgccgnt gattcanggc gagtacetga ncccctgtga 180  
gaaggtgtcc accctgcccg caatnacact gaagctggga ggcaaaggct acaagctgtc 240  
cncagagga 249

<210> 802

<211> 402  
<212> DNA  
<213> Homo sapiens

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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (383)  
<223> n equals a,t,g, or c

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ctccgagtga ggaccatcta cgagagnana aatgattgaa tacgatcctg aaagaagatt 180  
aggaatcttt tgggtgagtt gtgaggctgg cacctacatt cggacattat gtgtgcacct 240  
tggtttgtaa ttgggagttg gtggtcagat gcaggagctt cggaggggtc gttctggagt 300  
catgagtgan aaggaccaca tngtgacaat gcatgatgtg cttnatgctc agtggctgta 360  
tgntaaccac aaggatgaga gtnacctgcg gggagttggt ta 402

<210> 803  
<211> 542  
<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (124)

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<222> (194)

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<222> (262)

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<222> (355)

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<223> n equals a,t,g, or c

<220>  
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<400> 803  
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ccacagcggg ggctgccggg cgtggtgtcg gtgggtcggt tggtttttgt ctcaccgctg 120  
gntnccgtgc cgttcagttg cccgccatgg ctgagctgga tccgttcggc gcccttgccg 180  
gcgcccctgg ggtncgcg cggtgggaacg gatgnccggc gccggcgaag aagacccggc 240  
tgcggccttc ttggcgcaaa gnagaagcga gattgcgggc atcgagaacg acgaggcctt 300  
cgccatcctg gaacggcggc gccccgggc cccaaccgca aggaaagtcc ggcgnngggg 360  
tccgatgctg ttgnatggan taatgnaatg gtggattatn acnagnaaat taatgggttc 420  
aacanaaatt atgcagtatt tcaaaatgga tcgattgcat caaacctga aatatcctaa 480  
atggaganag aaaatggaan nttgaancct taagccaatt tcggaancaa aaacaaatgg 540

aa

542

<210> 804  
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<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (65)  
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<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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ggacnnncn ngtactggtg gccgtggaca agggcgtggt cgtgctgaat aagaanaaca 120  
aactgacgca gagtaagatc tgggacgtgg tggagaaggc agacatcggc tgcaccccg 180  
gcagtgggaa ggattacgcc ggtgtcttct ccgacgcagg gctgaccnnc acgagcagca 240  
gtggccagca gaccgcccag anggcagaac ttcagtgtcc gcagccagcc gcccgccgac 300  
gcngttccgt gcagctcacg gagaagcgaa tggacaaagt cggcaagtac cccaaggagc 360  
tgngcaagtg ctgcgaggac ggcattcggg agaaccccat gaagttctcg tgccagggcg 420  
gg 422

<210> 805  
<211> 566  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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gagggtggtt accgctgagg agctgcagtc tctgtcaaga tgatagaggt actgacaaca 120  
actgactctc agaaactgct acaccagctg aatgccctgt tggaacagga gtctagatgt 180  
cagccaaagg tctgtggtt gagactaatt gagtctgcac acgataatg cctcagaatg 240

actgcaagac taagggactt tgaagtaaaa gatcttctta gtctaactca gttcttggct 300  
tgacacagag acatttctct agctgtgaat tactggacag antcctgtct aaaatgaang 360  
tacagcccaa gcacctgggt gtgttgact gagctgctt tatttggctg taaaatcaat 420  
agaagaggaa aaggatgtcc cattggcaac tgacttgatc cgaataagtc aatataaggt 480  
tacgggttca gactgatgag aatgggaaaa attgtattng agaaggtgtg tttggaagtc 540  
aagctactaa tgcccttcaa ttctgc 566

<210> 806

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 806

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cttcgacccc gccggaggag gagaccccat tctataccaa cacctattct gatttttcgg 120  
tcaccctgaa gtttatattc ttatcctacc aggccttcgga ataattctcc atattgtaac 180  
ttactactcc ggaaaaaaag aaccatttgg atacataggt atgggtctgag ctatgatatc 240  
aattggcttc ctagggttta tcgtgtgagc acaccatata tttacagtag gaatagacgt 300  
agacacacga gcatatttca cctccgctac cataatcatc gcttatcccc accggcgta 360  
aagtattagc tgactcgcca canttccacg ggagcaatat gaaatgatct ggctgcagtg 420  
ctctgagncc taaggant 438

<210> 807

<211> 236

<212> DNA

<213> Homo sapiens

<220>

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<222> (122)

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<221> misc feature

<222> (140)

<223> n equals a,t,g, or c



<220>  
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<220>  
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<222> (219)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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tttcacttta catccaaaca tcactttggc ttcgaagccg ccgcctgata ctggcatttt 120  
gnacatgtgg ttgactatn tccgtatgtc tccatctatt gatgagggtc ttaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaancccn ggggggggcc nggacc 236

<210> 808  
<211> 552  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (375)  
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<220>  
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<220>  
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gtgtgaactg cagcctgagg agaagtgctg tgtggtgggc actctgttca aggccatgcc 120  
gctgcagccc tccatcctgc gggaggtcag cgaggagcac aacctgctcc cccagcctcc 180  
tcggagtaaa tacatacacc cagatgacga gctggtcttg gaagatgaac tgcagcgtat 240  
caaaactaaaa ggcaccattg acgtgtcaaa gctgggttacg gggactgtcc tggctgtgtt 300  
tggctccgtg agagacgacg ggaagtttct ggtggaggat tattgctttg ttgaccttgc 360  
tccccagaag cccgnacccc cattgacaca gttaggttnt gttantggtg tccggcctgg 420  
gcctgggtgg cgttggaggc gagagcntgt tgggcaccca ttgttggtgg atntggtgac 480  
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tgnaacttct aa 552

<210> 809  
<211> 380  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (362)

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<222> (365)

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<222> (380)

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<400> 809

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cggcggaagc ggagaccatg ttccgagcgg cggctccggg gcagctccgg cgggcggcct 120
cattgctacg atttcagagt accctggtaa tagctgagca tgcaaagatg tccctagcac 180
ccattacttt aaataccatt actgcagcca cagccttg aggtgaagtg tcctgcttag 240
tagctggaac caaatgtgac aaggtggcac aagatctctg taaagtagca ggcataagcaa 300
aaagttctgg tggctcagca tgaatgtgta caagggctta cttccagang gaactgaana 360
cnaatatttt tggaaactcn                                     380
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<210> 810

<211> 416

<212> DNA

<213> Homo sapiens

<220>

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<222> (352)

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<220>

<221> misc feature

<222> (384)

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<222> (401)

<223> n equals a,t,g, or c

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<222> (406)

<223> n equals a,t,g, or c

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gctcctgtac gaggggcccc cggacgacga ggctgccatg ggcattaaaa gctgtgaccc 120  
caaaggccct cttatgatgt atatttccaa aatgggtcca acctccgaca aaggctcggtt 180  
ctacgccttt ggacgagtct tctcggggct ggtctccact ggctgaagg tcaggatcat 240  
ggggcccaac tatacccctg ggaagaagga ggacctctac ctgaagccaa tccagagAAC 300  
aatcttgatg atgggccgct aagtggaaagc ccacgaagg atgtgccttg tngggacatt 360  
ttgggcctcg tggcggtgga ccantccttg tgaaaacggg naccannaac aacttc 416

<210> 811  
<211> 748  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (543)  
<223> n equals a,t,g, or c

<220>  
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gtggctcggtg gcatctacgg ggttttgaac aggaagcggg gccacgtgtt cgaggagtcc 120  
cagggtggccg gcaccccat gtttgtggtc aaggcctatc tgcccgtcaa cgagtccttt 180  
ggcttcaccg ctgacctgag gtccaacacg ggcggccagg cgttccccca gtgtgtgttt 240  
gaccttggc agatcctgcc cggagacccc ttcgacaaca gcagccgccc cagccagggtg 300  
gtggcgagga cccgcaagcg caagggcctg aaagaaggca tccctgcctt ggacaacttc 360

ctggacaaat tgtaggcggc ccttcctgca ggcctgccg ccccggggac tcgcagcacc 420  
cacagcacca cgtcctcgaa ttctcagacg acacctggag actgtccga cacagcgacg 480  
ctcccctgag aggtttcttg ggcccgtgc gtgccatcac tcaaccataa cacttgatgc 540  
cgnttctttc aatatttatt tccagagtcc ggaggcagca gacacgccct cttagtaggg 600  
acttaatggg ccggtcgng agggggaggc gggatgggac acccaacact tttttcattt 660  
cttcagangg naaacttcag atgtccaaac taattttaac aaacgcatta aganggttaa 720  
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<210> 812

<211> 562

<212> DNA

<213> Homo sapiens

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<222> (5)

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<220>

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<222> (8)

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tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcacaat ttgcgcgctc 120  
tctttctgct gctccccagc tctcggatac agccgacacc atgggtttcg gagacctgaa 180  
aagccctgcc ggccctccagg tgctcaacga ttacctggcg gacaagagct acatcgaggg 240  
gtatgtgcca tcacaagcag atgtggcagt atttgaagcc gtgtccagcc caccgcctgc 300  
cgacttggt catgccctac gttggtataa tcacatcaag tcttacgaaa aggaaaaggc 360  
cagcctgcca ggagtgaaga aagctttggg caaatatggt cctgccgatg tggaagacac 420  
tacaggaagt ggagctacag atagtaaaga tgatgatgac attgacctct ttggatctga 480  
tgatgaggag gaaagtgaag aagcaaagag gctaaggga gaacgtcttg cacaatatga 540  
atcaaagaaa gccaaaaaac ct 562

<210> 813

<211> 415

<212> DNA

<213> Homo sapiens

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ctgcgacttg tgttgggact ggaagatgtc ttcaggaaat gctaaaattg ggcaccctgc 180  
ccccaacttc aaagccacag ctgttatgcc agatgggtcag tttaaagata tcagcctgtc 240  
tgactacaaa ggaaaatatg ttgtgttctt cttttaccct cttgacttca ctttgtgtg 300  
ccccacggag atcattgctt tcagtgatag ggcagaagaa tttaagaaac tcaactgcca 360  
agtgattggt gcttctgtgg attctcactt ctgtcatcta gcatgggtca ataca 415

<210> 814  
<211> 316  
<212> DNA

<213> Homo sapiens

<220>

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<222> (15)

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<220>

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<222> (154)

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<220>  
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<220>  
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<222> (304)  
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<220>  
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ntgctgcca ttgcctaaag aagaatagcc aggnctggct gggtcggcac aacctgnttg 180  
agcctnaaga cacangccag agggtccctn tcagccacag cttccacac ccgctctgac 240



aatantnagc ctttctgaag catcaaagcc ttagaccagn tgaagactcc agccatgacc 300  
tcangctgct ccgnct 316

<210> 815

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

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<222> (265)

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<222> (279)

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<222> (309)

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<220>

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<222> (336)

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<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

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<222> (385)

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<222> (399)

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<222> (437)

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<222> (466)

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<222> (486)

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<220>

<221> misc feature

<222> (506)

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<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 815

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ggcgggaggc ggccgagccc gaccgcgtgc gactcgcggg tccctcctcc tggggccacg 180
atggctgtaa tggggccccg catccacatt ctttgtttta agtgagcctg tggtggttaa 240
agtccgtga ctctgggatc ttganagggtg aatgtttang gtttacttcc aaaatgtggt 300
tttcaacanc ttgtaatggt tggatgatggg ggtaanggga aaaacgacnt cgtggaantg 360
catttgactg gtggaatttg agaanaatgt gtagccanc ttgggtgttg gaggttcaac 420
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ccaggngaatt tccgtggact ggaaann 507
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<210> 816

<211> 551

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 816

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gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggcattgcag 120
aaggctgacg tctatagctt tgggatcatc ctgcaggaga tagcacttcg cagtggctct 180
ttctacttgg agggcctgga cctcagcccc aaagagattg tccagaaggc acgaaatggt 240
cagcggccat atttccggcc aagcattgac cggacccaac tgaatgaaga gctagttttg 300
ctgatggagc gatgttgggc tcaggaccca gctgagcggc cagactttgg acagattaag 360
ggcttcattc ggcgctttaa caaggagggt ggcaccagca tattggacaa cctcctgctg 420
cgcatggaac agtatgccaa taacttggag aagctggtgg aggaacgcac acaggcctat 480
ctggaggaaa aacgcaaggc tgaagctctg ctctacccaa tcctacccca ttcagtggca 540
gagcagttaa a                                     551
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<210> 817

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

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<222> (16)

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<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 817

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tcctcttctg ctctgagtat cgcccaaaaa tcaaaggaga acatcctggc ctgtccattg 120
gtgatgttgc gaagaaactg ggagagatgt ggaataacac tgctgcagat gacaagcagc 180
cttatgaaaa gaaggctgcg aagctgaagg aaaaatacga aaaggatatt gctgcatatc 240
gagctaaagg aaagcctgat gcagcaaaaa agggagtgtg caaggctgaa aaaagcaaga 300
aaaagaagga agaggaggaa gatgaggaa atgaagagga tgaggaggag gaggaagatg 360
aagaagatga angatgnnna cacntg 386
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<210> 818

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

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<222> (334)

<223> n equals a,t,g, or c

<220>

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<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 818

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ggcacgagaa aatgtcaggc ctgattatct aaaagctatt tggaatgtaa tcaactggga 60
gaatgtaact gaaagataca tggcttgcaa aaagtaaacc acgatcgta tgctgatcat 120
accctaata tcccagcaag ataatgtcct ttcttctaag atgtgcatca agcctgggtac 180
```

atactgaaaa ccctataagg tcctggataa tttttgtttg attattcatt gaagaaacat 240  
ttattttcca attgtgtgaa gtttttgact gttaataaaa gaatctgtca accatcaaaa 300  
aaanaaaaaa aaaaaaacctg gggggggggc ccgnanccna tttggccctt tggggggggg 360  
tntt 364

<210> 819

<211> 462

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

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<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

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<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

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<220>  
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<222> (359)  
<223> n equals a,t,g, or c

<220>  
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<222> (379)  
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<220>  
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<222> (452)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (455)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (456)  
<223> n equals a,t,g, or c

<400> 819  
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ggtgccgncc gctctagaac tagtgatcc cccgggctgc aggaattcgg caccagctcc 120  
gccagacagc gggncaaagt gctggcccat ttctatgggg tgaagctgga gggcaagggtg 180  
cccatgcaca agctgttctt ggagatgctc gaggccatga tggactgagg caaggggtgg 240  
gactgggtggg gggtcttgcc aggacctgcc ttagcatggg gtccagcccc aagggtgng 300  
gcggactggg gtctgggcat gccacagcct gctggcaggc cagggcagtc cntcnccng 360  
gggaacaggc cccacgcctt ttcttcccct tctaaggggt gttcaaaact gggaactttt 420  
ttccagggtt tgggcacatt gttgcccctt tnnanncata aa 462

<210> 820  
<211> 449  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (8)

<223> n equals a,t,g, or c

<400> 820

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ggagacgctg cagacccgcg acccgagca gctcggaggc ggtgaataat agctcttcaa 120
gtctgcaata aaaaatggcc tccaacaaaa ctacattgca aaaaatggga aaaaaacaga 180
atggaaagag taaaaaagtt gaagaggcag agcctgaaga atttgtcgtg gaaaaagtac 240
tagatcgacg tgtagtgaat gggaaagtgg aatatttcct gaagtggag ggatttacag 300
atgctgacaa tacttgggaa cctgaagaaa atttagattg tccagaattg attgaagcgt 360
ttcttaactc tcagaaagct ggcaaagaaa aagatggtac caaaagaaaa tctttatctg 420
acagtggatc tgatgacagc aaacaaaga                                449
```

<210> 821

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

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<400> 821

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gaaatggacc ccaactgctc ttgcgccact ggtggctcct gcacgtgcgc cggctcctgc 120
```

aagtgc aaag agtgcaa atg cacctc ctgc aaga agagct gctgtt ctctg ctgccccgtg 180  
ggctgt gcc a agtggt gcc a gggctg cgtc tgcaa agggg catcgg agaa gtgcag ctgc 240  
tgtgc ctgat gtggga acag ctcttctccc atatgt aaat agaaca acct gcaca acctg 300  
gattttttt aaaa tacaac actgag ccat ttgctg catt tctttt atac taaat atgtg 360  
actgaca ata aaaaca attt tgactt taaa anaaaa aaaa aggggg ccnt ttgggg tccc 420  
tggggg cc an ttnggg gat cgggaa agtt tcc 453

<210> 822

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (206)

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<222> (260)

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<220>

<221> misc feature

<222> (330)

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<222> (367)

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<222> (398)

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<222> (402)

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<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 822

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taaaacactg aactgacaat taacagccca atatctacaa tcaaccaaca agtcattatt 120
accctcactg tcaacccaac acaggcatgc tcataaggaa aggttaaaaa aagtaaaagg 180
aactcggcaa atcttaccac gcctgnttac caaaaacatc acctctagca tcaccagtat 240
tagaggcacc gactgcccac gtgacacatg tttaacggcc gcggtaccct aaccgtgcaa 300
aggtagcata atcacttggg ccttaattan ggacctgtat gaatgggtcc acgaggggtc 360
aagctgnctc ttacttttaa ccagtgaaaa tgacctgncc gngaagaggc gggcataaca 420
cagcangacc aagaagaccc tatggagctt taatntatta ngcaaacagt ccta      474
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<210> 823

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<400> 823

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gcccacgcgt ccgcccacgc gtccgccctc tcccaacatg gcggcctcag caaaaaagaa 60
gaataagaag gggaagacta tctccctaac agactttctg gctgaggatg ggggtactgg 120
tgagggaagc acctatgttt ccaaaccagt cagctgggct gatgaaacgg atgacctgga 180
aggagatgtt tcgaccactt ggcacagtaa cgatgacgat gtgtataggg cgcctccaat 240
tgaccgttcc atccttccca ctgctccacg ggctgctcgg gaaccaata tcgaccggag 300
ccgtcttccc aaatcgccac cctacactgc ttttctagga aacctaccct atgatgttac 360
agaagagtca attaaggaat tctttcgagg attaaatatc agtgcagtgc gtttaccacg 420
tgaacccagc aatccagaga ngttgaaagg tttgggtatg ctg      463
```

<210> 824

<211> 599

<212> DNA

<213> Homo sapiens

<220>

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<222> (9)

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<220>  
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<220>  
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<220>  
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<222> (329)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (423)  
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<220>  
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<222> (440)  
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<220>

<221> misc feature

<222> (486)

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<222> (544)

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<222> (579)

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<220>

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<222> (581)

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<220>

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<400> 824

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cgtcttgctg ctgatgactt tagaggcnag tatgagacag atctggccat gcgccantct 120
gtgganaacg acatccatgg gctccgaaag gtcattgatg acaccaatat cacacgactg 180
canctggaga cagagatcga ggntctnang gaggatctgc tcttcatgaa naanaaccac 240
taagaggaan gancaaggcc tacaagccca nattgccanc tctgggntga ccngggaggt 300
anatgcnccc aaatctcang acctcgcnna gancatggga gacatcccgg cccaatatga 360
cnagtgggct cntaagaacc gagangaagc tagaccagta ctgggtcttaa acanattnan 420
ganagcacca cagtgggtcan cacacagtct gctgaagttg gaactgctga aacnacgctc 480
acaganctta gacgtacagg ccatccttg gaaatatgaa ctggacttca ttagaaatct 540
gaangccctc ttggaaaaca accttgacgg gaagtggang ncccgntacg accttaca 599
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<210> 825

<211> 500

<212> DNA

<213> Homo sapiens

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<220>

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<222> (319)  
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<220>  
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<222> (336)  
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<220>  
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<222> (368)  
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<220>  
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<220>  
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<222> (440)  
<223> n equals a,t,g, or c

<220>  
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<222> (460)  
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<220>  
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<222> (469)

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<221> misc feature

<222> (473)

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<220>

<221> misc feature

<222> (480)

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<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 825

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atcttgccctg gagcaaggnt atcaatgctt acaattgtga agagcccaca gaaaagttac 120
cttttcccat catcgatgat aggaatcggg agcttgccat cctggtgggc atgctggatc 180
cagccagaga aggatgaaaa gggcatgcct gtgacagctc gtgtggtggt tgtttttggt 240
cctgataaga agctgaagct gtctatcctc taccagcta cactggcag gactttgatg 300
agatctcagg gtagtccanc tctctccagc tgacanagaa aaaggggtgc acccagttga 360
ttggaggntg ggataggtat ggccctccacc ncctgagaga gcaaaaattt tccgnagagn 420
tnacaagngt ccttgcagan actcgtaaac cagctaagtn tgngagtgnn ttngcaagtn 480
taatccattt ttcngagatc                                     500

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<210> 826

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

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<222> (406)

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<222> (414)

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<222> (421)

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<220>

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<222> (424)

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<220>

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<222> (449)

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<222> (456)

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<220>

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<222> (467)

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<220>

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<222> (483)

<223> n equals a,t,g, or c



<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (496)  
<223> n equals a,t,g, or c

<400> 826  
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gcgccccctc atcaccgtcg ccatgcccgg aggtctgctt ctgggggacg tggctcccaa 120  
ctttgaggcc aataccaccg tcggccgcat ccgtttccac gactttcttg gagactcatg 180  
gggcattctc ttctcccacc ctggggactt taccacagtg tgcaccacag agcttggcag 240  
agctgcaaag tggcaccaga atttgncaag aggnatgtta agttgattgc cttttcaata 300  
gacagtgttg aggaccatct tgcctggagc aaggatatca atgnttacia ttgtgagggg 360  
ccacagaaag ttaccttttc ccatcatcgt gataggatcg gagttncat cctnttgga 420  
ngtnggtcca cagagaaggt gaaagggang cttttnagtc gtgtggngtt tttttggccc 480  
gtnagaagtn aagtgtatc ttaccagtac c 511

<210> 827  
<211> 519  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
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<222> (8)  
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<220>  
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<222> (186)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (479)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (487)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (519)  
<223> n equals a,t,g, or c

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gggtcgaccc acgcgtccgc cacggtccgc actgcctctt cccttctcgc ttgggaactc 120  
tagtctcgcc tcgggttgca atggacccca actgctcctg tgccgctgag gtgtctcctg 180  
cacctngcca gtcctgcaag tgcaaagagt gcaaatacac ctccctgcaag aagagctgct 240  
gctcctgctg ccctgtggct gtgccaagtg tgcccagggc tgcattctgca aagggggcatc 300  
ggagaagtgc agctgctgct cctgatgtcg ggacagccct gctcccaagt acaaataagag 360  
tgaccctgtaa aatccaggat tttttgtttt ttgctacaat cttgacccct ttgctacatt 420  
cctttttttt tgtgaaatat gtgaataata attaaacact tagacttgaa aaaaaaana 480  
aaaaaanaaa aaaggggggn cctttttagg ggggttcncn 519

<210> 828  
<211> 442  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (128)  
<223> n equals a,t,g, or c

<220>  
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<222> (438)  
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cccacgcgtc cgggagggga cacgggetca ttgcggtgtg cgccctgcac tctgtccctc 120  
actcgcncnc gacgacctgt ctgcccagc gcacgccttg ccgcccgcgc gcagaaatgc 180  
ttcggttacc cacagtcttt cgccagatga gaccggtgtc cagggtactg gtcctcatc 240  
tcactcgggc ttatgccaaa gatgtaaaat ttggtgcaga tgcccagacc ttaatgcttc 300  
aaggtgtaga ccttttagcc gatgctgtgg ccgttacaat ggggccaaag ggaagaacag 360  
tgattattga gcagagttgg ggaagtccca aagtaacaag agatggtgtg actgttgcaa 420  
agtcattgac ttaaaagnaa at 442

<210> 829  
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<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (139)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (489)  
<223> n equals a,t,g, or c

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cggttaccca cagtctttcg ccagatgaga ccggtgtcca gggtagctgc tctcatctc 120  
antcgggctt atgccaaana tgtaaaatth ggtgcagatg cccgagcctt aatgcttcaa 180  
ggtgtagacc ttttagccga tgctgtggcc gttacaatgg ggccaaaggg aagaacagtg 240  
attattgagc agagttgggg aagtcccaaa gtaacaaaag atggtgtgac tgttgcaaag 300  
tcaattgact taaaagataa atacaaaaac attggagcta aanttggtca agatgttgcc 360  
antaacacaa ttgaggagct ggggatggca ntaccatgct actgttatgg cacgtctata 420  
gccaaggaag gtttcgagaa ggtagcaag gtgctaatac atgggaatca ggagaggtgt 480  
gatgttagng ttgatgctgt attg 504

<210> 830  
<211> 582  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (9)  
<223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (15)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (30)  
 <223> n equals a,t,g, or c

<400> 830  
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 ctagaactag tggatccccc gggctgcagg aattcggcac aattcggcac gagggaaggt 120  
 gctgtgtaat cattaaggag cggaggcttt tggagctgct aaaatgccgg attacctcgg 180  
 tgccgatcag cggaagacca aagaggatga gaaggacgac aagcccatcc gagctctgga 240  
 tgaggggggat attgccttgt tgaaaactta tggtcagagc acttactcta ggcagatcaa 300  
 gcaagttgaa gatgacattc agcaacttct caagaaaatt aatgagctca ctggtattaa 360  
 agaatctgac actggcctgg ccccaccagc actctgggat ttggctgcag ataagcagac 420  
 actccagagt gaacagcctt tacaggttgc caggtgtaca aagataatca atgctgattc 480  
 ggaggaccca aaatacattha tcaacgtaaa gcagtttgcc aagtttgtgg tggaccttag 540  
 tgatcaggtg gcacctactg acattgaaga agggatgaga gt 582

<210> 831  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (98)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (142)  
 <223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (274)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)  
<223> n equals a,t,g, or c

<220>  
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<222> (358)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

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ggccgctcag gcgcctgcgg ctgggtgagc gcacgcangg cggcgaggcg gcacgtgttt 120  
ctaggtcgtg gcgtcgggct tncggagctt tggcggcact aggggaggat ggcggagtct 180  
tcggataagc tctatcgagt cgagtacgcc aagagcgggc gcgcctcttg caagaaatgc 240  
agcgagacat ccccaaggac tcgctccgga tggncatcat ggtgcatcgc ccatgtttga 300  
tggaagagtc cacatggtac anttctcctg cttctggaag tgggcaatcc atccgnanct 360  
gactttaagt gannggtttc ttata 385

<210> 832  
<211> 505  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
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<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
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<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<400> 832

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gcatgctgg caacacggcg gctgctcggc tggctcgttc ccgcgcggac agcacccaag 120
aaaacctcat ttggtcgtc gaaggatgaa gaccggattt tnaccaacct gtacggccgc 180
catgactgga ggctgaangt tccctgagtc gaggtgactg gtacaagaca aaggagatcc 240
tgctgaaggg gcccgactgg atcctggcg agatcaagac atcgggttta aggggccgtg 300
gaggcgctgg ctccccaat ggcctcaagt ggngnttcat gataaggcct cagatggcag 360
gccccaatat ttggtggttn aacgcaaacg aggggggagc cgggnaactg naagaaccgg 420
gggggtttta ggccnggntc ttaaaaagtt tttgaaggtt nctttgttg gggncggnc 480
atggggggccc ggttgnntat ttttt                                     505
```

<210> 833

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (444)

<223> n equals a,t,g, or c

<400> 833

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gccgctcctg gtgctgcttg tgtgctcgtt tggcgcgac ctggtacctc ttttgtgaag 120
cggcagctga ggagactccg gcgctcgcca tggccgacga aaagcccaag gaaggagtca 180
agactgagaa caacgatcat attaatattga aggtggcggg gcaggatggt tctgtggtgc 240
agtttaagat taagaggcat acaccactta gtaaactaat gaaagcctat tgtgaacgac 300
agggattgtc aatgaagcag atcagattcc gatttnacgg gcaaccaatc aatgnaacag 360
acacacctgc acagttgggn aatgggagga tgaagatacc aatgatgtgt tccaaacagc 420
agacgggagg tgtctactga aaan                                     444
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<210> 834

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<400> 834

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cccacgcgtc cgcccacgcg tccgcgcgcg tcgctatggc gtcgctcacc gtgaaggcct 60
accttctggg caaggaggac gcggcgcgcg agattcgccg cttcagcttc tgctgcagcc 120
ccgagcctga ggcgggaagc nnggctgcgg cgggtccggg acccttgcca gcggctgctg 180
agccgggtgg ccgccctgtt cccgcgcgtg cggcctggcg gctttccagg cgcactaccg 240
cgattgagga cggggatttg ttgctttttt ccattgacga ggatttgaca tgggcatgtt 300
ctacgttgaa gatgaatctt tncgatttta natttnaaga gaaaanattt ccggcgggga 360
cacgncaagt                                     370
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<210> 835

<211> 317

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

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<222> (215)

<223> n equals a,t,g, or c

<220>

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<222> (258)

<223> n equals a,t,g, or c

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<222> (270)

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<222> (288)

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<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<400> 835

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cccacgcgctc cgcccacgcg tccgcccacg cgtccgcccc cgcgctccgca atgagcttcg 60
tggtgccccct gaagagcatc ccaccctgct cacggaggca cccctgaacc ccaaggccaa 120
ccgggagaaaa atgactcaaa ttatgtttga gactttcaat gtccaagcca tgtntttggc 180
tatccaggcg gtgctgtctc tctatgcctc tggangcaca atggaatcgt gctggactct 240
ggagatggtg tcaccanana tgtcccaatn tatgagggt atgcttgncc ccatgcaata 300
natgggtctg natttgg 317
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<210> 836

<211> 382

<212> DNA

<213> Homo sapiens

<220>

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<222> (44)

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<220>

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<222> (80)

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<220>

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<222> (85)

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<222> (117)

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<222> (142)

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<222> (143)

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<222> (190)

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<222> (192)

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<220>

<221> misc feature

<222> (207)

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<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

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<222> (230)

<223> n equals a,t,g, or c

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<222> (261)

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<222> (271)

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<220>

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<222> (311)

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<222> (339)

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<220>

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<222> (348)

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<222> (353)

<223> n equals a,t,g, or c

<220>

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<222> (374)

<223> n equals a,t,g, or c

<400> 836

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ggcgacgggtg cgggcttcan agggnccegt ttacaaagga gcttgcaa at gcttctnccg 120
gtccaagggc catggcttca tnnccccagc tgatggcggc cccgacatct tcctgcacat 180
ctttgaatgn gnaaggggga gtatgtacca ntggaaggcg acgaggtcan ctataaaatg 240
tgcttccatc ccaccaaga ntgagaagct ncaagccgtg ggagttcgtc atcaatcacc 300
tggcaccagg naccaagtat gagacctggt tttggacant ttcacantt tcntagga 360
ttggttgga gcancccttt tt 382
```

<210> 837

<211> 375

<212> DNA

<213> Homo sapiens

<400> 837

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cggagtttct cctcggggtc ggagcaggag gcacgcggag tgtgaggcca cgcagagcg 60
gacgctaacc ccctcccag ccacaaagag tctacatgtc tagggctctag acatgttcag 120
ctttgtggac ctccggctcc tgctcctctt agcggccacc gccctcctga cgcacggcca 180
agaggaaggc caagtcgagg gccaaagacga agacatccca ccaatcacct gcgtacagaa 240
cggcctcagg taccatgacc gagacgtgtg gaaacccgag ccctgccgga tctgcgtctg 300
cgacaacggc aagtggttgt gcgatgacgt gatctgtgac gagaccaaga actgccccgg 360
cgccgaagtc cccga 375
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<210> 838

<211> 484

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)  
<223> n equals a,t,g, or c

<220>  
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<222> (117)  
<223> n equals a,t,g, or c

<220>  
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<222> (138)  
<223> n equals a,t,g, or c

<220>  
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<222> (267)  
<223> n equals a,t,g, or c

<220>  
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<222> (273)  
<223> n equals a,t,g, or c

<220>  
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<222> (300)  
<223> n equals a,t,g, or c

<220>  
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<222> (352)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (360)  
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<220>

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<222> (391)

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<220>

<221> misc feature

<222> (405)

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<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 838

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ccgggtcgac ccacgcgtcc ggccagccgt tcacgcgttc ggtcctcctt ggctgantca 120
ccgccctcgc cgccgcanca tggacgcccc cangcaggtg gtcaactttg ggcctgggcc 180
cgccaanctg ccgcactcag tgttgttaga gatacaaaaag gaattattag actacaaaagg 240
aattggcatt agtggtcttg aaatgantca cangtcatca gattttgcct agattattan 300
caatacagaa aatcttgtgc gggaattgct aactgttcca gacaactata angtgatttn 360
tctggcangg aagtgggtgc ggccaattca ntgctgtccc ttaancctca ttggcttgaa 420
agcangaaag tgtgcggact atgtngtgac aggaacttgg tcagctaagg gcgcanaaaa 480
aacc                                     484

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<210> 839

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

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<222> (411)

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<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

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<220>

<221> misc feature

<222> (437)

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<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c



<220>  
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<222> (454)  
<223> n equals a,t,g, or c

<220>  
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<222> (462)  
<223> n equals a,t,g, or c

<400> 839  
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ccatgtattc ggctgctggc agagacttgg ggatggaacc gcacagagcc gggggccctt 120  
tgccagctgc gaattttcgc cctgacgttt tcaacggagg tgactatact gggcaattgc 180  
tgagagaagat ttgccaatt gttgcttctg aatactcgat tgantgaaag ggttttnaat 240  
tcatacgcgg ggtagcccc aaatgttaca anttaaacag ncaaaacagt ccattggatg 300  
cagcggtttt ccatggagac tgttcttacg gntgacaaag attttttgaa gcaagactaa 360  
agntgtatta ggcattccca ttattaaggc ctggattacg ggggggcatt nctgcaatgc 420  
tgtcnaaaat ncccgtnttt caaggngttt tttncctac tntggtttac aac 473

<210> 840  
<211> 279  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<400> 840  
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tntctacata aaatacaaaa acttagatgg gcatggtgct gtgngcctat agtcccacta 120  
cttggtggggc taaggcagga ggatcacttg agccccggag gtcgaggcta cantgcgcca 180  
agagtgcact actgtactcc agccagggca aggagagcga gaccctgtnt caaataaata 240  
aatnaantta attaaataan taatttaaata aaaagcnaa 279

<210> 841  
<211> 234  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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aggnaaggnn tggcgaaacg gtgtattacc gtttgctacc agnnaagaac gtganganaa 120  
gangggcacg aggcctgggtt tttaaggagt gtcgccagag tgcctcgatg anacgggtat 180  
tggcgggtata tggagttaaa agatgaccan ctanangact gagctagtan cagg 234

<210> 842  
<211> 460  
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<220>  
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<222> (451)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<400> 842

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aaggcggcaa aaagggagcc aagaagaaag tggttgatcc attttctaag aaagattggt 120  
atgatgtgaa agcacctgct atgttcaata taagaaatat tggaaagacg ctcgtcacca 180  
ggacccaagg aaccaaatt gcactgatg gtctcaaggg tcgtgtgttt gaagtgaagtc 240  
ttgctgattt gcagaatgat gaagttgcat ttagaaaatt caagctgatt actgaagatg 300  
ttcagggtaa aaactgcctg actaacttcc atggcatgga tcttaccctg gacaaaatgt 360  
gttccatggt caaaaaatgg canacaatga ttgaagctca cggtgatgac aagactaccg 420  
atggttactt gcttcgctgt tctgngntgg nntactaaa 460

<210> 843

<211> 597

<212> DNA

<213> Homo sapiens

<220>

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<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 843

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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgaggt ccttccgagg 120  
aagctaaggc tgcgttgggg tgaggccctc acttcatccg gcgactagca ccgcgtccgg 180  
cagcgccanc ctacactcgc ccgcgccatg gcctctgtct ccgagctcgc ctgcatctac 240  
tcggccctca ttctgcacga cgatgaggtg acagtcacgg aggataagat caatgccctc 300

attaaagcag ccggtgtaaa tggtgagcct ttttggcctg gcttgtttgc aaaggccctg 360  
gccaacgtca acattgggag cctcatctgc aatgtagggg ccggtggacc tntccagca 420  
gctggtgctg caccagcagg aggtcctgcc cctccactg ctgctgctcc agctgaggag 480  
aagaaagtgg aagcaaagaa agaagaatcc gaggagtctt atgatgacat gggcttttgt 540  
ctttttgact aaacctcttt tataacatgt tcaataaaaa gctgaacttt acaaaaa 597

<210> 844

<211> 502

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

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<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

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<222> (16)

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<220>

<221> misc feature

<222> (29)

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<223> n equals a,t,g, or c

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<222> (63)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (135)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (244)  
<223> n equals a,t,g, or c

<220>  
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<222> (276)  
<223> n equals a,t,g, or c

<220>  
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<222> (399)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 844

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ggnggccgct ctagtaacta gtggatcccc cgggnctgca gggaattcgg gcacgagcaa 120
gccaagatgg gtgcnataca agtacatcca ggtagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccantctctt gctctccaca 240
gggnetcccc gccccacccg gcctgataaa gcgcgncgac tgggctacaa ggccaagcaa 300
ggttacgtta tatatagat tcgtgttcgc cgtggtggcc gaaaacgcc agttcctaag 360
ggtgcaactt acggcaagcc tgtccatcat ggtgttaanc anctaaagtt tgctcgaagc 420
cttcagtcgg ttgcagagga gcgagctgga cgccactgtg gggctctgag agtcctgaat 480
tcttactggg ttggtgaaga tt                                     502

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<210> 845

<211> 601

<212> DNA

<213> Homo sapiens

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<222> (3)

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<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 845

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gcnganacna accctcacta aagggaacaa aagctggagc tccaccgcgg tgacgaccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca gagctttgct tttccatccg 120
cctttgatcg tcttctctt cagccatcca ggtaagccaa gatgggtgca tacaagtaca 180
tccaggagct atggagaaaag aagcagtctg atgtcatgcg ctttcttctg agggctccgct 240
gctggcagta ccgccagctc tctgctctcc acagggctcc ccgccccacc cggcctgata 300
aagcgcgccg actgggctac aaggccaagc aaggttacgt tatatatagg attcgtgttc 360
gccgtggtgg ccgaaaacgc ccagttccta agggtgcaat tacggcaagc ctgtccatca 420
tggtgttaac agctaaagtt tgctcgaagc cttcagtcgg ttgcagagga gcgagctgga 480
cgccactgtg gggctctgag agtcctgaat tcttactggg ttggtgaaga ttccacatac 540
aaattttttg aggttatcct cattgatcca ttccataaag ctatcagaag aaatcctgac 600
a                                     601

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<210> 846

<211> 455

<212> DNA

<213> Homo sapiens

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<222> (5)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

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<221> misc feature

<222> (28)

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<222> (32)

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<222> (42)

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<222> (115)

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<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 846

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ccgctctagc actagtggat ccccggggc tgcaggaatt cggcacgagc gcagnaagcg 120
agatgacgag ggaacgtcat cgtttggaâ gcgtcgcaat aagacgcaca ngttgtgccg 180
ncgctgtggc tctaaggcct accaccttca gaagtcgacc tgtggcaaat gtggctaccc 240
tgccaagcgc aagagaaagt ataactggag tgccaaggct aaaagacgaa ataccaccgg 300
aactggtcga atgaggcacc taaaaattgt ataccgcaga ttcaggcatg gattccgtga 360
aggaacaaca cctaaaccca agagggcagc tggtgcagca tccagttcat cttagaatg 420
tcaacggtta gtcattgcaat aaatgttctg gtttt 455

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<210> 847  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (21)  
 <223> n equals a,t,g, or c

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 actagtggat ccccggggct gcaggaattc ggcacgaggt cgcggcgaca tggccaaacg 120  
 taccaagaaa gtcgggatcg tcggtaaata cgggaccgcg tatggggcct ccctccggaa 180  
 aatggtgaag aaaattgaaa tcagccagca cgccaagtac acttgctctt tctgtggcaa 240  
 aaccaagatg aagagacgag ctgtggggat ctggcactgt ggttcctgca tgaagacagt 300  
 ggctggcggt gcctggacgt acaataccac ttccgctgtc acggtaaagt ccgccatcag 360  
 aagactgaag gagttgaaag accagtagac gctcctctac tctttgagac atcactggcc 420  
 tataataa 428

<210> 848  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 848  
 tcgcggcgac atggccaaac gtaccaagaa agtcgggatc gtcggtaaata acgggacccg 60  
 ctatggggcc tccctccgga aaatggtgaa gaaaattgaa atcagccagc acgccaagta 120  
 cacttgctct ttctgtggca aaaccaagat gaagagacga gctgtgggga tctggcactg 180  
 tggttcctgc atgaagacag tggttgccgg tgccctggacg tacaatacca cttccgctgt 240  
 cacggtaaag tccgccatca gaagactgaa ggagttgaaa gaccagtaga cgctcctcta 300  
 ctctttgaga catcactggc ctataataaa tgggttaatt tatgtaac 348

<210> 849  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (216)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature

<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (226)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<400> 849  
ggcagagcct aggtcgcggc gacatggcca aacgtaccaa gaaagtcggg atcgtcggta 60  
aatacggggac ccgctatggg gcctccctcc ggaaaatggt gaagaaaatt gaaatcagcc 120  
agcacgccaa gtacacttgc tctttctgtg gcaaaaccaa gatgaagaga cgagctgtgg 180  
ggatctggca ctgtggttcc tgcataaga cagtgnntgg cggtnctgg acgtacaata 240  
ccacttccgc tgtcacggtt aaagtccgcc atcagaagan tgaaggagtt gaaagaccat 300  
tagacgttcc tntantcttt gggacatcat tggncataa ttaatgggtt aatttttggg 360  
naaaa 365

<210> 850  
<211> 276  
<212> DNA  
<213> Homo sapiens

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<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
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<222> (36)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (47)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (75)  
<223> n equals a,t,g, or c

<400> 850  
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atcataggaa ctagntggat cccccagggc tgcaggaatt cggcacgagg ccgaaaggaa 120  
agaaggccaa gggaaagccc agctgtcgtg aagaagcagg aggctaagaa agtgggtgaat 180  
cccctgtttg aagcctaaga attttggcat tggacaggac atccagccca aaagagactc 240  
acccgctttg tgaaatggct atatcagggt gcagcg 276

<210> 851  
<211> 430  
<212> DNA  
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<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (174)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 851

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gacgacagan gggggcccccga gaagataagg ccgntcgctg acgccgtggt tcctctttcg 120
gccgcgctgg tgaacaggac ccgtcgccat gggccgtgtg atccgtggac agangaaggg 180
cgccgggtct gtgttccgcg cgcacgtgaa gcaccgtaaa ggcgctgcgc gctgcgcgcc 240
gtggatttcg ctgagcggaa cggctacatc aagggtcatc tcaaggacat catccacgac 300
ccggggccgcg gcncgcccct cgccaaggtg gtcttccggg atccgtancg ttaagaagc 360
gngncggagc tgttcattgc cgccgagggc attcacacgg gccagtttgt gtattgccgc 420
aaaaaggccc                                     430
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<210> 852

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

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<222> (81)

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<220>  
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<220>  
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<222> (92)  
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<220>  
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<220>  
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<222> (176)  
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<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
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<222> (263)  
<223> n equals a,t,g, or c

<220>  
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<222> (280)  
<223> n equals a,t,g, or c

<220>  
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<222> (285)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (317)  
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<220>  
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<222> (372)  
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<220>  
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<220>  
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<222> (404)  
<223> n equals a,t,g, or c

<220>  
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<222> (411)  
<223> n equals a,t,g, or c

<220>  
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<222> (418)  
<223> n equals a,t,g, or c

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cggtcaagat tcagcttcac ncgnaagcca cnggcattggc ngaggaaggc attgctgctg 120  
gaggtgtaat ggacgttaat actgctttac aagaggttct gaagactgcc ctcatncacg 180  
atggcctagc acgaggaatt cgcgaagctg ccaaagcctt agacaagcgc caagcccatc 240  
tttgtgngct tgcattcaac tgngatgagc ctatgtatgn caagntggng gagggccttt 300  
gngctgaaca ccaaatnaac ctaattaagg gttgatgaca acaagaaact aggagaatgg 360  
gtaggccttt gnaaaaatga cagagagggg aaaccccgna aagnggttgg nttgcagntg 420

<210> 853  
<211> 278  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (126)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<400> 853

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ctgtcccagt cggctttacc ctatcgacgc agcgtcccca cttggttgaa gttgacatct 120
gacgannnga aggagcagat ttacaaactg gccaaagaagg gccttactcc ttcacagatc 180
ggtgtaatcc tgagagattc acatggtgtt gcacaagtac gttttgtgac aggcaataaa 240
attttaagaa ttcttaagtc taagggactt gtcctga 278
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<210> 854

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<400> 854

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gcggnacgnt ggaccggggt ccttcctgtc gcgttgatat gattggccgg cgaatcgtgg 60
ttctcttttc ctcttggtgt gtctgaagat agatcgccat cgtnaacgac accgtaacta 120
tccgcactag aaagttcatg accaaccgac tacttcagag gaaacaaatg gtcattgatg 180
tccttcaccc cgggaaggcg acagtgccta agacagaaat tcgggaaaaa ctagccaaaa 240
tgtacaagac cacaccgatg gtcattcttg tatttggtatt cagaactcat tttggtggtg 300
gcaagacaac tggtcttggc atgatttatg attccctgga ttatgcaaag aaaaatgaac 360
ccaaacatag acttgcaaga catggcctgt atgagaagaa aaagacct 408
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<210> 855

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature



<222> (288)  
<223> n equals a,t,g, or c

<220>  
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<222> (345)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<220>  
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<222> (422)  
<223> n equals a,t,g, or c

<400> 855  
ggggtcgaccc acgcgtccgc tatgacacca aggggtcgctt tgctgtacat cgtattacac 60  
ctgaggaggc caagtacaag ttgtgcaaag tgagaaagat ctttgtgggc aaaaaaggaa 120  
tccctcatct ggtgactcat gatgcccgc ccatccgcta ccccgatccc ctcataagg 180  
tgaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 240  
aacttggtta cctgtgtatg gtgactggag gtgctaacta gggaagantg gtgtgatcac 300  
caacagagag aggcaccctg ggatcttttg gacgtgggtt cactngaaag atggccaatg 360  
ggaacagctt tgccaantcg anttttccaa catttttggt anttgggcaa ggggcaacaa 420  
anca 424

<210> 856  
<211> 608  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (270)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 856

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gggcatcttt cgggacaatt ggcacaagcg cgcgaaaacc gggggcaaga gaaagcccta 60
ccacaagaag cggaagtatg agttggggcg cccagctgcc aacaccaaga ttggcccccg 120
ccgcatccac acagtccgtg tgcggggagg taacaagaaa taccgtgccc tgaggttgga 180
cgtggggaat ttctcctggg gctcagagtg ttgtactcgt aaaacaagga tcatcgatgt 240
tgtctacaat gcatctaata acgagctggn tcgtaccaag accctggtga agaattgcat 300
cnggtcatc gacagcacac cgtaccgaca gtggtaccna gtcccactat gcgctgcccc 360
tggtccgcaa gaagggagcc aagctgactc ctgaggaaga agagatttta aacaaaaaac 420
gatctaaaaa aattcagaag aaatatgatg aaagggaata agaattgcaa aatcaagcaa 480
gtcttctgga ggagcagttt cagcagggca agcttcttgc gtgcatcgnt ttaaggnccg 540
gacagtgtgg ccgancagat ggctatgtgc taaanggcaa agagtggagt ctatcttang 600
aaaacaag                                     608
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<210> 857

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (389)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<400> 857  
ggcacgagtg gggccgtctt cctcatcctt cctttttctc ggggctcccg tggagccacc 60  
tggacatgag acccgccctc aatgccgaag cctctcggaa gcaatctttc gggacggaag 120  
ttaagtagcc cggagcggga ggctgtggcg gaagtggtcg cgttaccgck tgtttgtgcg 180  
catgcgccac tctcgtctgg ccgccgcgct ttcaggaggt gcttttggtt ctctccggtc 240  
ttgtccacgc taggggggtgc acgtackccc aactgtggtc gcgctctcac cccttctgct 300  
gckctcgtgg cccctcgcg atggcgggca tcctgtttga ggatattttc gatgtgaagg 360  
atattgancc ggaaggcaag aagtttganc gagtgtctcg ackgcattgt gagagtgaay 420  
ttycaagatg gvwbkaaacn aagakgtaaa 450

<210> 858  
<211> 467  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (38)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (456)  
<223> n equals a,t,g, or c

<400> 858  
gaaanacnn gaaccannan gaagaatcga aagagctntg ncagncttnc tcaaaaagtc 60  
cggaagctg aaagtccccg aatgggtgga taccgtcaag ctggccaagc acaaagagct 120  
tgctccctac gatgagaact ggttctacac gcgagctgct tccacagcgc ggcacctgta 180  
cctccggggg ggcgctgggg ttggctccat gaccaagatc tatgggggac gtcagagaaa 240  
cggcgtcatg ccagccact tcagccgtgg ctccaagagt gtggcccgcc gggtcctcca 300  
agccctggag gggctgaaaa tgggtgaaaa ggaccaagat ggcggtcgca aactgacacc 360  
tcaggggaaa agagatctgg acagaatcgc cggacagggtg gcagcttcca acaagaagca 420  
ttagaacaaa ccatgctggg gtaataaatt ggcctnattc gtaaaaa 467

<210> 859  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 859

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gggtcgaccc acgcgtccga aaaactgttn gggagcttga caaaggcatg caggagagaa 60
caggagcagc cacagccagg agggagagcc ttccccaagc aaacaatcca gagcagctgt 120
gcaaacaacg gtgcataaat gaggcctcct ggaccatgaa gctagtcctg agctgcgtcc 180
cggagcccac ggtgggtcatg gctgccagag cgctctgcat gctggggctg gtcctggcct 240
tgctgtcctc cagctctgcg agggagttac gtggggcctg tctgccaaac cagtgtgccg 300
tgccagccaa ggacaggggtg gaattgcggc ttacccccat gttcaccccc aaggattgca 360
aaaaccgggg ttgctgcntt tgaattccag gatccnggat ggnentgggt ttttcaagcc 420
cntgccagga agcagaagca c                                     441
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<210> 860

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (401)  
<223> n equals a,t,g, or c

<400> 860  
tgggctacct gcattcactg aacatcgttt atagagactt aaaaccagag aatattttgc 60  
tagattcaca gggacacatt gtccttactg acttcggact ctgcaaggag aacattgaac 120  
acaacagcac aacatccacc ttctgtggca cgccggagta tctcgcacct gaggtgcttc 180  
ataagcagcc ttatgacagg actgtggact ggtggtgcct gggagctttc ttgtatgaga 240  
tgctgtatgg cctgccgcct ttttatagcc gaaacacagc tgaaatgtac gacaacattc 300  
tgaacaagcc tctccagctg aaaccaaata ttaccaattc cgcaagacac ctcttggaag 360  
ggctcctgna gaaggacang acaaagcggc tcggggggcaa nggtgacttc atggagatta 420  
aga 423

<210> 861  
<211> 429  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (392)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<400> 861

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ggcacgagct cgtgcgcttt ggggctgctg ggactcgcgt cggttggcga ctcccggacg 60
taggtagttt gttgggccgg gttctgaggc cttgcttctc tttacttttc cactctaggc 120
cacgatgccg cagtaccaga cctgggagga gttcagccgc gctgccgaga agctttacct 180
cgctgaccct atgaaggcac gtgtggttct caaatatagg cattctgatg ggaacttgtg 240
tgttaaagta acagatgatt tagtttgttt ggtgtataaa acagaccaag ctcaagatgt 300
aaagaagatt gagaaattcc acagtcaact aatgcgactt attgtagncc aaggagcccn 360
caatttacca tgggaactga gtgaatggtt tnaatgagac ttntcgggta cttagggagt 420
aaaancttt                                     429
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<210> 862

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (286)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (488)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (544)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (545)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 862

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naagtctccc agaagacagt gattatcaag gaagaggaag aagatactgc agagaagcca 120
gggaaggaag aggatgtcgt gactccaaaa ccagncaaga gaaagagaga ccaggcagag 180
gaggagccca acagaatacc aagccgcanc ctccgacgga ccaaacttaa ccaagaatca 240
acagccccc aagtgtctctt cacaggagtgt gtggatgctc gggganancg ggctgtgctg 300
gcatgggggg aaatctggct gggtcacggt caaagcttcc cacnggttca tggatcgcat 360
ccgccggaca ttcaattcct gtgtggccct ggggcggggn attccccatt ctgttccngg 420
gatgggtggc atcattcccc tcaagctggg tttcttctta ccccgatga atatgtggtg 480
aacgaccngg cnccaanaga agaatttggc tttactttca agacgcattg agcagggtcc 540
gganngaagg tgcntanaag ggtatgaatt tatgtgaacc tggatccacc acacca 596
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<210> 863

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 863

ggcagcttgg cagtgaccaa gaatgatggg cactaccgtg gagatcccaa ctggtttatg 60  
aagtatgtgg cccccagggg gcttgggtct ccgcatgggg tgggaggtgg cttgttctaa 120  
ggagcttgcg agaaggatta ggggaagcag atagccaaga aaggataaag tgaggggtctg 180  
ggatggggaa taatgggtcc ttaatactcc ttgaccctc ctttccacc ctctgcgct 240  
cagtctccct agcctatgag gcaagctaga ttagggaaaa aaagtgcaca ggaaggcaat 300  
ggggattggg ctaagacgta acacagggat cagaaaacgg gtggaaaaca cacatttcta 360  
ncaagtcttt aacccggttc ctccccttct taggaaagcg cagagcttaa gangggantt 420  
cacagagagc cagnngcagg a 441

<210> 864

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 864

gacatcacca cggcggcagc catttaaacc cctcaccag ccagcgcccc atcctgtctg 60  
tccgaaccca gacacaagtc ttcactcctt cctgcgagcc ctgaggaagc cttctttccc 120  
cagacatggc caacaagggt ccttcctatg gcatgagccg cgaagtgcag tccaaaatcg 180  
agaagaagta tgacgaggag ctgggaggag cggttggtgg agtgggtcca tagtggcagt 240  
gtgggccctg atgtggggcc ggcccagacc gtggggcgct tggggctttc cagggtnttg 300  
cttgaagatt ggcgttgatt tntgnagcaa gctgggttg aacagcntnt taccc 355

<210> 865

<211> 499

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (353)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (444)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (465)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (490)  
<223> n equals a,t,g, or c

<400> 865  
aattcggcac gagactggac caaattagac agagagaatc agatatcacc aaggagagaa 60  
ttcagaagat cctggcaact ggtgccaatg ttattctaac cactggtgga attgatgata 120  
tgtgtctgaa gtattttgtg gaggctggtg ctatggcagt tagaagagtt ttaaaaaggg 180  
accttaaacg cattgccaaa gcttctggag caactattct gtcaaccctg gccaatattg 240  
aagggtgaaga aacttttgaa gctgcaatgt tgggacaggc agaagaagtt gtacaggaga 300  
gattttgtga tgatgagctg atcttaatcn aaatacctag ggncgacggt ttnatcggtt 360  
tttttcgggg ggcaaaattt tcccggtnnt nggngggggg cctttnaaag gncctttttg 420  
ggagngnttt tgggnaaatt gggnccccgg gggtttttaa gncntctnt cccaaaattn 480  
ccccagggtg ggacctttt 499

<210> 866  
<211> 353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
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<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (244)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (249)  
<223> n equals a,t,g, or c

<220>  
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<222> (265)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (284)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 866  
attgctggaa aactgcagga tggactcttg nacatcacta nntgnagttt tntggctccc 60  
tggaacagcc tgagcttagc tcnogccggg gcttcaccaa gacctacact gttggctgta 120  
aggaatgcac agtgtttccc tgtttatcca tcccctgtca aactgcagag tggcactcat 180  
tgcttggtgga cggaccagct cctccaaggc tctgaaaagg gcttccagtt cccgtnaacc 240  
ttgnctggnc tgacctcggg aagcnagggg ctgtgacacc tggnagtgcc ctgnggtncc 300  
cagaatagcc tggaatcctg tcccgaagtt ggtaagttgg aagcctttna cat 353

<210> 867  
<211> 566  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (499)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (514)  
<223> n equals a,t,g, or c

<400> 867

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ccgcgcgccc gtcccgtcgc cgccgcgcgc gccgcagacc cctcgggtctt gctatgtcga 60
gctcaccctgt gaagcgtcag aggatggagt ccgcgctgga ccagctcaag cagttcacca 120
ccgtggtggc cgacacgggc gacttccacg ccacgcagca gtacaagccc caggatgcta 180
ccaccaaccc gtccctgata ctggccgcag cacagatgcc cgcttaccag gagctgggtg 240
aggaggcgat tgcctatggc cggaagctgg gcgggtcaca agaggaccag attaaaaatg 300
ctattgntaa actttttgtg ttgtttggag cagaaatact aaagaagatt ccgggccgag 360
tatccacaga atagacgcaa ggctctcctt tgataaagat gcgatgggtg ccagagccag 420
gcggnatcatc gagctctaca aggaagctgg gatcagcaag accgaattct tataaagctg 480
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cccgttccgc tgcccgccct gccaccatga cggaacaggc catctccttc gccaaagact 180
tcttgccgg agnatcgccg ccgccatctc caagacggcc gtggctccga tcgagcgggt 240
caagctgctg ctgcaggctc agcacgccag caagcagatc gccgccgaca agcagtacaa 300
gggcatcgtg gactgcattg tccgcattcc aaggagcagg cgtgtgtcct tctggagggn 360
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acgtctctga tgcggtggct canagcacc gtatcattta tggaggctct gtgactgggg 180  
caacctgcaa ggagctggcc agccagcctg atgtggatgg cttccttggt ggtggtgctt 240  
ccctcaagcc cgaattcggt gacatcatca atgccaaaca atgagcccca tccatcttcc 300  
ctacccttcc tgccaagcca gggactaanc agccanaag ccagtaact gccctttccc 360  
tgcataatgct tctgatgggt tcatctgttc cttcctgnng cctcatccaa actgtatctt 420  
cctttactgg ttatatcttc accctgtaat ggttgggacc aggccaatcc cttctccact 480  
tactataatg gttggaacta aacgtcacca aggtggcttc tccttggctg agagatggaa 540



ggcgtgnngg gattngctcc tgggttcctt aagccctagt ganggcanaa gagaaaccat 600

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<212> DNA

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cgagctgcag actctncagg acatcctcgg ggaccctggg gacaaggccg acgtgggncg 180  
gntgagccct naggttaagg cccggtcaca gtcagggncc ctggacgggg aaagtncctgc 240  
ctggtcggtc tcgggcgaag acagtnggga ncagcccag ggtcccttga cttccaggtn 300  
cccccggttc gcccaagtgg nctccggccc cgtagggttac aacatttncg antnngnccc 360  
atcacgcnag ggcaaganat tagagaggga cgctttaaga gcagagcaca gcttnattca 420  
gagaagttcc aggataaccc anttcgtttc ttgagtttac atcccttttt tggnggataa 480  
aaagcatctt tngccat 497

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cgccgcacag ctgctgagaa tgagtttggtg gtgctgaaga aggatgtgga tgctgcctac 180  
atgagcaagg tggagctgga ggccaagggtg gatgccctga atgatgagat caacttcctc 240  
aggaccctca atgagacgga gttgacagag ctgcagtccc agatctccga cacatctgtg 300  
gtgctgtcca tggacaacag tcgctccctg gacctggacg gcatcatcgc tgagggtcaag 360  
gcacagtatg aggagatggc caaatgcagc cgggctgagg ctgaagcctg gtaccagacc 420  
aagtttgaga ccctncaggc ccaggctggg aagcatgggg acgacctccg gaatacccgg 480  
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ctcgctaacc tngccttacc ccnncctatt aacctactgg gagaactctc tgtggctagt 120  
aaccangttc tncgtatcaa atatcactct cctacttaca ggaactcaac atactagtgc 180  
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<210> 873  
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cctctcccct gagtgggaaa ggagctcttg gggctggtcc ttcagcacag aggaggggtc 180  
actgaaagcg ttattgacca gctgctgtac cttctgcatc tctactccacg ctactgcct 240  
ttttctcttc cttgcatttg ctctgtgcc tgtgccggct cctgcaaata caaagatgca 300  
aatgcacntc cttgcaanaa gagtgantgc aggcctttcc tgcgaatntg ggggatgggc 360  
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anangattca att 433

<210> 874  
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tcggccccac atntntcatc acca 84

<210> 875  
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ggaagaggat ggagatgaag atgaggaagc tgagtncagt tacgggccaa gcgggcagct 180  
gaagatgatg aggatgacga tgtcgatacc aagaagcaga agaccgacga ggatgactta 240  
gacagcaaaa aaggaaaatt taaacttaaa aaaaaaaagg ccnccgtgac ctttttacc 300  
tccatttccc ttttcagatt ttaaactgtg tcacctttcn gttagaaggg cccccccnnc 360  
cancnttggg aattcccntt tccnnnttt nncaggggtt ttttcannnn cccnnncccn 420  
aaccttggnn tttttnaana gggnggggna aaannnccca atttttnnng nccntttttt 480  
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aaattgaaac ctggcgcaat agatatagta ccgcaaggaa agatgaaaaa ttataaccaa 120  
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<211> 315

<212> DNA

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ggttttgggg gttgttctcg gtttgacagga accctggtaa ttagtcttgc ccccttctc 180  
ccagctcact cgcttgggct tgcacagtac attggaacgt gcgggttcta tttgtattc 240  
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<400> 878  
aatnccggcac gagagacagt ttgctaattt aaaaatgtag catnccattn gtaatnatnn 60  
cnetcccnng ccaaaaagat tnnctaatac tgcttgtagc agccagagaa agatccaaaa 120  
cactacncag cnetctngca cngaggaaat ntttcccn acatngactc cnggcctaca 180  
tcagccaaac nnaaccnngg tggggtttgg atttgatagc caatnagttc tgtgctggtt 240

gcaaagaatt gatatnttag atggnttnta atacntcagc agatttgtct ttncg 295

<210> 879

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 879

ctgaggttta cagttagaaa atgttctcaa aggtttatca gttatgtatt gatgattggt 60  
aatctagacc ctctggaggc tgtagaatgt gaaaagatac agctgagctg acaagtttta 120  
gggcactatc ttctggaatg aaatcggcca agaaaatggg tcaagggcat gggggttaga 180  
gaatgtttct ttacctaata aatgttaagc caactatgga agattggggg cgtgggggca 240  
tgaaatacaa aattatgata atttatacag aactagggtt ctttatgttc tgcaagaagg 300  
tttttattag ctaatttggg gaggggggcc atgctgcagt attttttttc ctggggaaca 360  
tgccatttct gatggggaag ttattttgtt tacaagagtt ggtttaccac acaaccctga 420  
atgaatgtgn caatggccta a 441

<210> 880

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 880

ggcanagcgg cattgggagg ggcgctctga gattaaagag tttacctct gaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa aaaannaana na 112

<210> 881

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (147)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (154)  
<223> n equals a,t,g, or c

<400> 881  
ggcagaccna acatagattt aantaaatac attancgggg gtaaaaatga aaatcntaac 60  
ccaagacatg aacatTTTTtTt gctgtaactt aactattaag gccttttccc acacgcntta 120  
atagtcccat tttctntttg gncattngtg gctntgcccc at 162

<210> 882  
<211> 117  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<222> (91)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (109)  
<223> n equals a,t,g, or c

<220>  
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<222> (113)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<400> 882

ggcanagggg aaacccccgc ctctactaaa aatacaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaanaaaana aanaaan 117

<210> 883

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (448)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<400> 883  
gnccaatnta tcaatcacgc actgcactca tcagggcaaa cctgggtacg cctgncaggt 60  
caccggtgcc ggnaattccc gggtcgaccc acgcgtccgc ccacgcgtcc gccacgcgt 120  
ccgcccacgc gtccgctcgt gccatgatct gtatttaatg gtttttattt ctccgggtgca 180  
tttgagagaa gccacgctgt cctctcgagc ccagatggaa agacgttttt gtgctgtggg 240  
cagcancctc ccccgagcgg gggtaggga agaaaactat cctgcggggt ttaatttatt 300  
tcattcagtt tgttctccgg gtgtggcctc agccctcaga acaatccgat tcacgtaggg 360  
aaatgtttaa ggantttctgc agctatgngc aatgtggcat gggggggcgg gcagtcctgc 420  
ccatgtgttc cctcatctgn tcagccancg nc 452

<210> 884  
<211> 340  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (90)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (96)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (206)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (251)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (257)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (282)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (284)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<400> 884  
aatcggcac aggtgaatcg cagcttctga gaccagggtt gctccgtccg tgetccgcct 60  
cgccatgact tcctacagct atcgccagtn gtcggncacg tcgtccttcg gaggcctggg 120  
cgggcggtcc gtggcggtttt gggccggggg tcgccttttcg cgcgcccagc attcacgggg 180  
gctccggcgg ccgcggcgta tccgtntcct ccgcgcgctt tgtgtcctcg tcctcctcgg 240  
gggcctacgg nggtggntaa ggnggggggtc ctgaaccgcn tncnaacggg gtgctggggc 300  
ggcaacgagg aagcttaaac catgcagaac ctnaacgacc 340

<210> 885  
<211> 52  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<400> 885

gncctatagt gagtcgnatt acaattcact ggccgctcgtt ttacaaccnc gt

52

<210> 886

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<400> 886

gacctgcaga gccctgctgc gcagangtgc tgttttccag cccctcccaa atgcattctt 60  
caggtgcgtg tctgaagatc ttggttttgc tgtgcttgan acacagctga tgctttannn 120  
gctcagggtt actggcttta taacagtngg cataacgcct aaagcatccc ctctgcacgt 180  
gactgagcat gtncttaacc agaggagctg aacggagtgc agaaaatagt agttttaggg 240  
cttagtgagc agaggaagca gcttctctgg tgctttattt aatagaacat ttaagagtgc 300  
tca 303

<210> 887

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (448)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (474)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (482)  
<223> n equals a,t,g, or c

<220>  
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<222> (486)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (509)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (513)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (553)  
<223> n equals a,t,g, or c

<220>  
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<222> (575)  
<223> n equals a,t,g, or c

<220>  
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<222> (582)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (586)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (621)  
<223> n equals a,t,g, or c

<400> 887  
gggacacggc ggtcgttttc ccgaaaacat gggccctccc atggggccatt tgctccctgg 60  
aggccctcgc gtcttgctga gcccggggag ttaggatgac gcgagcgtg agggagcccc 120  
gaacgattcc ttcgcggaac aattgaggcg aagcctttgg gactactttg tgggacggac 180  
cctggcgggc cctgccanac ncacanggat ggcggcgga ggcggccgatt tggggctggg 240  
ggccgcgcgtc cccgtggaac tnaagcggga gcgacgcgtg gtgtgcgtg agtaccggg 300  
aattggtgcg tgatgtggct aaaatgctgc ccactctggg cggggaaaaga aaggggtctc 360  
cccggatctt acccagaanc ccccnagaa agcttgggan ctgttttctt cccggggccc 420  
aaggaacca ttacttgncc ccccccgnth tttgggccc aaccgcgtt ccantacca 480  
ancaancctt gcttgcttcc ccctttccnn ggnaaaaaaa aaaacaaaag ggggggggaa 540  
aaaaaagggg ttntcttggg ggccccttta aaggnccccc tncnnaagg tcccccttt 600  
tgaaaattgg gaaaaatcct ntgggggttc cttcttcccc ccccttttt 649

<210> 888  
<211> 72  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (60)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (67)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (68)

<223> n equals a,t,g, or c

<400> 888

gccctatagt gagtcgtatt acaattcact ggccgtcggt ttacaacgtc gtnatgtggn 60  
aaaccnnnta at 72

<210> 889

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (151)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (158)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (163)  
<223> n equals a,t,g, or c

<220>  
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<222> (168)  
<223> n equals a,t,g, or c

<220>  
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<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (224)  
<223> n equals a,t,g, or c

<400> 889  
ggcanagttt ttttttttaa anaaggngaa aacacatgna atttnatttt tntttaacct 60  
taagnttgcc aacttcttnc cctgaacagc atttntcttg ttttgatacc cacctacact 120  
tatattagaa angnnctgca aactattttag ngactccnct ttnaattnat ggncgtatgc 180  
ctnaagaatg ttttgaaata taaagcctat cccgtttgcc cagnttgtaa atttcagg 238

<210> 890  
<211> 225  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (185)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (204)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (223)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (224)  
<223> n equals a,t,g, or c

<400> 890  
accacgcag tccgcgcgtc ctccatcacg tgtctgttct ctggggaggc agtaaggggc 60  
cgtggagctg gcctcggcct cggcatcggg agaggctgga cttcctgtct ctctgtgctg 120  
aanggctgcg atggcgcccg ctctcactga cgcagcagct gaagcacacc atatccggtt 180  
caaantggct ccccatcct ctancttgct ccctggncag tgnng 225

<210> 891  
<211> 130  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (90)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (96)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (103)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (129)  
<223> n equals a,t,g, or c

<400> 891  
ggcacgagcg gcacgagggg gggcccggta cccaattcgc cctatagtga gtcgtattac 60  
aattcactgg ccgtcgtttt acaactncgn gatganggaa atntaaaata cttccgagct 120  
cgtatgttnt 130

<210> 892  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 892  
gcactgaaga acattactga ggggggctaac cttgggggact ccaatttgcc aatgatgagg 60  
gaacatttga aagaactgca aattgtcctt gccagctctt gggatccttg gatacctggg 120  
gccatttaag aagctagggg aattaggcca caacaccccc tgggacatcc gaaagctaca 180  
ccacagatgc cagtgggtca tgccttcttc ccgcaacttt aggaaaattt atttatttat 240  
tgtttattag ttatgggggg agagggggaga tttaaaggac cagggacatg ggaaccaagc 300  
catagggatc agaggggctt gtccttgaac actactgggg tatattcagg ctcatccacg 360  
cagctgctgg gttcttgccc taacggccct cccctgcaac atccgtcttg gaggagaggc 420  
t 421

<210> 893

<211> 307  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (264)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<400> 893  
ggaatgacaa accctttgaa tgaaattgtg gcacaaaatc tgttcagggt ggtgtaccgt 60  
gtaaagtggg gatggggtaa aagtgggttaa cgtcactgtt ggatcaacaa ataaagggtta 120  
cagttttgta agagaagtga tttgaataca tttttctgga actattcata atatgaagtt 180  
ttcctagaac cactggagtt tctagtttaa tagtttgcta tgcaatgnac cacctaaaac 240  
aatactttat attgttattt ttcngaaaga ctcaaaacac ctgtaattnt aaaccttaat 300  
atganan 307

<210> 894  
<211> 453  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (76)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (129)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<400> 894  
gcggnacgcg tgggtggnac ccacgcgtcc gtcgaccac gcgtccgcga cctgggcaat 60  
tatcccaaca aattanactc ccctctgtca tgtcaatatt ggaattgtag ctcacagggtg 120  
tttgcttana tcagtcaccc agagaggaag aatgatagag aaaacttggtg ctctgacact 180  
actgattcctt acatagtggga acaatatcctt tcttgataat gaattgtagt tattataaat 240  
cgggtgatcac gtgaccctaa aggcacccaa ataaatcttt agtaaaataa ttctgatgac 300  
acaatgaatg aattattttt aaggcatttt cttggactag caatgtattc ttagagtggc 360  
gactgaatgt gcataacctc atgatccatg ttttactcat tcnnnggtcc ccaggccacc 420  
cagggcaacc aggcctcctt ggacctcctg ggn 453

<210> 895  
<211> 596  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (283)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (457)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (528)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (553)  
<223> n equals a,t,g, or c

<220>  
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<400> 895  
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caaggggaaag atgaaaaaatt atagccaagc ataatatagc aaggactaac ccctataacct 120  
tctgcataat gaattaacta gaaataactt tgcaaggaga gccaaagcta agacccccga 180  
aaccagacga gctacctaaag aacagctaaa agagcacacc cgtctatgta gcaaaatagt 240  
gggaagattt ataggtagag gcgacaaacc taccgagcct ggngatagct ggtgccaaga 300



tagaatctta gntcaacttt aaatttgccc acagaaccct ctaaattccc ttggaaattt 360  
aactggtagt ccaaagagga acagctcttt ggacactagg aaaaaacctt ggagagagag 420  
taaaaaattt aacaccata gtaggcctaa aagcagncac caattaagaa agcgntcaag 480  
ctcaacaccc actacctaaa aaatcccaaa catataactg aactnctnac acccaantgg 540  
accaatctat cancctatag aagagctaan ggtaggataa ggaacatgaa aacatt 596

<210> 896

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 896

gaaagaagga aactagctcg gaccgtgcag gtttgtaggt ctgttggcct gtaggtttcg 60  
gcacaagttt cagcgagaga aggagaaaac tgccttggtt ggaaccttgc agtgcaggga 120  
aaggggtgtg gcgccctttg ctggggaaat ggcggacgac aagtggggcg gaggaggcct 180  
gcntccggaa agtcagtaga attcatcaca agagagctac aagagcctgg aagaagctga 240  
agacttgcta ccctccatcc ttacttcacc ctgggacctg aggagacctc ttcaatcaga 300  
aatggaaaca gagagattct cctgggaaac ccctgcccc taaacggccc t 351

<210> 897

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 897

ggcanaggna gagagagaga gagaactagt ctcggtgtttt tttttttttt ttttgggna 60  
aaaatttnat tt 72

<210> 898

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

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<222> (271)

<223> n equals a,t,g, or c

<220>

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<222> (272)

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<220>

<221> misc feature

<222> (333)

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<220>

<221> misc feature

<222> (335)

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<220>  
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<222> (359)  
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<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

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cacgaggcaa ccgctccgga acgccangtg gggcgagggc gtctcgaggt ctcagagaca 120  
ccaaggcccc tgcgacaagg tggctgcagc taggcgggg gcgtcaggac gacggnagcg 180  
ggttcgggtc ggtgacacgc agacctgagg gagctggggc cgcntnttcc gcccgcgccc 240  
cagcccttgc agatcgagat ttgcgtccta nnatggggaa aaaagcagag gccagggcgc 300  
cgattttatt tggagagaag caagcttctt tgnctcttt tgggattagg aaatttcana 360  
cntggnaaaa atggtgtgtg gtt 383

<210> 899  
<211> 172  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (97)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (131)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<400> 899

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ggcagcagct tggtcgtctc actggtgtga ctccagcatc ccctttgctc gaaatggacc 60
ccaactgctc ttgcgccact ggtggctcct gcaegtncgc cggtccctgc aattncaaag 120
agtgcaaatg nacctcctgc aanaagagct gctgttcctg ntgccccgtg ga 172
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<210> 900

<211> 101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<400> 900

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gcagcagcac aggcgcgggt cccgggaang gccggctctn ctgcgccta gatntggaat 60
ctccttcacg aaaccgactc ggctgtggnc accgcgcgnc g 101
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<210> 901

<211> 358

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (24)

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<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<400> 901

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gctagctgcc cctttcccg cctgggcacc ccgagntcc cccgaccccg ggtcccaggt 120  
atgctccac ctccacctgc ccactcacc acctctgcct agttccagac acctccacgc 180  
ccacctggtc ctctcccatc gccacaaaa gggggggcac gagggaacga gcttagctga 240  
gctgggagga gcagggtgag ggtgggcgac ccaggattcc ccctcccttc ccaattaaag 300  
atgaggggtat taaattgtct tggtttttaa ttantatta ntttttntnt ttttccan 358

<210> 902

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
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<220>  
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<220>  
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<222> (391)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (420)  
<223> n equals a,t,g, or c

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aggatagcat gccacctgca actcactgca tgaccctttc tgtatattca aaccaagct 120  
aagtgcttcc gttgctttcc aaggaaacaa agagtcaaac tgtggacttg attttgtag 180  
cttttttcag aatttatctt tcattcagtt cccttccatt atcatttact ttacttaga 240  
agtatccaag gaagtctttt aactttaatt tccatttctt cctaaaggga gaggtagtga 300  
tatgtacagt gttttggaga tgtatacata tattccagaa ctnggggggaa tcttattaag 360  
ttatggatat accaccgtaa cggtcnaaaa ngtttaaaga acccatncgg taaggtaatn 420  
ggg 423

<210> 903  
<211> 362  
<212> DNA  
<213> Homo sapiens

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<220>  
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<222> (116)  
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<220>  
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<222> (177)

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<221> misc feature

<222> (273)

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<222> (305)

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<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<400> 903

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agtnagggct gagtgggtat caccttctcg gtgagaaaat caatttcctg agagtnttgt 120
aaactaggac ttagagtact aatcatgggtg tttttcagaa attatatata tttttnaag 180
tcagggtctc accgtgtcgc ccaggctgga ggcagaggtt gtggctcgtg ccgaattcga 240
tatcaagctt atcgataccg tcgacctcga gnggggggcc cggtacccaa ttcgccctat 300
tagtnagtng gtattacaat tcactgggcc gtcgttttta aaacgggggt nactggggaa 360
ac 362
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<210> 904

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (107)

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<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (294)  
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<400> 904  
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ggcgggtccgg ctctcgatgg tggcgtgacg ggggcggggg tggcggngcg ttctcctcgg 120  
ttgggaagga accagcccgc gaaccaggn cgggaagggg gntcggcctn ngggggaang 180  
gactgacatg tctctcgaag accccttttt tgtagtcga ggcgaggtgc agaaagcgg 240  
gaacacgggn ccgcgggctg taccagngct ggtgcganct cctgcaagaa ancncggcgt 300  
tcggaacgc 309

<210> 905  
<211> 388



<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (364)

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<222> (375)

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<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 905

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nnctgnaccc aggagcagct gcaccacttg naaagtcgcc tcatctccta agcactcctt 120
tcccctgnng tccccttcga accctgaagc cctctggtgc gcgctctgcc cgatgcacag 180
ccacctaagc nagccccag gttagaaacg tgggttaaag ctcttgccctg ccccgtaaa 240
gcttcaactcc naccctttta agcgtcctgc cccttcacct tgaaccggg ttccccatt 300
ccanttcctg ggctttgnca tgatttggtt ggttcaatgg ttccttcttt cctgaggggg 360
cttnagggtt ttgnggggg ntaaggtt 388
```

<210> 906

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>  
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<222> (50)  
<223> n equals a,t,g, or c

<220>  
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<222> (91)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<220>  
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<222> (219)  
<223> n equals a,t,g, or c

<220>  
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<222> (316)  
<223> n equals a,t,g, or c

<220>  
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<222> (337)  
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agggtgtgtt tcaacttatg tacgtactgt ntcatgcagg tttatagcac ggtagagtag 120  
aaggcggctt ctgattttta ggggtattttt agaattcatt cctgaatgan gggttcagac 180  
accagtcctc ctcggaacag ggggtgagggg tcgactganc tttgttgaga agcctccagt 240  
taaggcttcg ggcgggtctc catgttgat tgtgtgttta ctgagcttcc cactgggttag 300  
aagatgacac atttgnccat cgtcctgtgt atctganatt cccagggga 349

<210> 907  
<211> 469  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (53)

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<222> (102)

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<222> (141)

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<220>

<221> misc feature

<222> (161)

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<220>

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<222> (189)

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<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

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<220>  
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<220>  
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<222> (245)  
<223> n equals a,t,g, or c

<220>  
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<222> (279)  
<223> n equals a,t,g, or c

<220>  
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<222> (292)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (322)  
<223> n equals a,t,g, or c

<220>  
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<222> (331)  
<223> n equals a,t,g, or c

<220>  
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<222> (333)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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 <222> (462)  
 <223> n equals a,t,g, or c

<220>  
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 cgatagaaat tgaaacctgg cgcaatagat atagtaccgc angggaaaga tgaaaaatta 120  
 taaccaagca taatatanca nggactaacc cctatacctt ntgcataatg aattaactag 180  
 anataactnt gcaaggagag ncnaagctaa gaccncgaa accagacgag ctacctaaga 240  
 acagntaaaa gagcacaccc gtatatgtag caaaatagng ggaagattta tnggtagagg 300  
 cnacanacct accgagcctg gngatatgct ngntgtccaa gataagaatc ntaggttaac 360  
 ttttaaatTTT ggccacagaa cccttttaaa tcccnttgga aattttaactg gtaagcccaa 420  
 agaggaaaca gtttttttgg cactngggaa aaaaccttgn anaanagag 469

<210> 908  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (78)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>  
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<222> (81)  
<223> n equals a,t,g, or c

<220>  
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<222> (93)  
<223> n equals a,t,g, or c

<400> 908  
ggcacgagcc cacacccacc caagaacagg gtttggttaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaannn nggggggggc ccngt 95

<210> 909  
<211> 373  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (222)  
<223> n equals a,t,g, or c

<220>  
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<222> (225)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
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<222> (330)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

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<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 909

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ggtggccagc tgttactggg tttaaaacag gactgtttct tgttaagatg ggggaactgc 60
tttcctgcc aagtgccan agatcaactt ggaaaacaaa atcctcacag agggagagta 120
aagaacactt gattagtctc attagcacct gtagctactt ttctaaagt aattcctgaa 180
ggcccttgaa agcttcacta tgagattgaa tttgcaccat tncncaatg gtctttgcaa 240
tgagggatgg gggatagtgt gatggtcctt nccaaccatc cctggaagaa gaagccaaaa 300
aactttttcc cgaaaggagt tctttcacn aagnagntcc catctgggca ggaaattacc 360
tccgggnaac ana 373
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<210> 910

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

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<222> (627)

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<222> (691)

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<400> 910

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tggttttgg ttcaattttt attcactctt catagaatca caattacctt tatatatcat 180
atgttattgg aagagattcc tcagtaatct ccaatctctc atagtgcctc acaggggttg 240
tcaatggctt ttggaactgg aaggacctta gaacttatct gttatgctcc tgatagccaa 300
tagcagatag aagcttgcaa tcaagagggg aggacatgtg ttcttcaatg gatatcaaag 360
gaagagggtt caaaccaaag ccatttggca agccctgtag cctgggcat ttaagacagg 420
ggcgggtctc gccaaattgc acccatttaa ctatcccaa gagccacaag tgcctacaac 480
ccaggcccta agttgatgaa gaaaaagtca aggaangagg tgatcaattg gaaatattcc 540
catcaaattg gtaaaacttat ttagaaaatg ggcatattag aaaaagcctt ccaagatgat 600
tttgataat aaaagtggat ttgnggnaat ggaataact ctggttaagc cctacattat 660
cccttacatt tggtttaggg acctactgac ntaaattaag gaaacatggg aaagtacctt 720
g 721
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<210> 911

<211> 564

<212> DNA

<213> Homo sapiens

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gtgaatcccg cctccctct cagccagaac tgtggactcg tcccggggag gggcggtggg 180  
tggggcgggg ctggcgggaa atttcggttt tggcgcgctc cctgcggcga cgctccatcg 240  
tgcgctctcc tcttcccccg gtggtctcct cgcctgcctt ctggctctgc atgccctgct 300  
ctgaagagac acccgccatt tcaccagta agcgggcncg gntgcggaag tgggcggcat 360  
gcagnnccgn tttgcncggt tttcgagcaa gccaaaggcc caacgggggt ngggcgcgcg 420  
ggggttaaga ctgtaaaatg gctangatta aacataccac tatggagaaa ttttntgaaa 480  
nggaattcaa aanngtcctt ttgngtaat gaaaatggtc aagtnagggt ggtgaaaaat 540  
ttttgattag actgggtaaa atga 564

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<213> Homo sapiens

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gagtcaccac tggacctcca aggaagccac gtgcagacat ctacaacctt cgatctcctg 180  
acgagtttat tgttggccaa aaccaggctt tgattgaacc aggatgaatg cgggtgttgg 240  
aagtagaata tatatataca tataaaattg gttgggagcc acgtgtacca gtgtgtgttg 300  
atcttggctt gattcagtct gccttgtaac agaactggcg atggaatatg agaggagccn 360  
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<220>  
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gccatcctgg cttcgggggc gccggcctcc agggcccggg aaggagaact cctagggcta 120  
ctaaatcctc gctggaggng ntggcttctt atgcgggagg acgtggcgga gggcctgact 180  
ttgggagccg ggggttgact ggattggtga ggcccggtg gctacttctg tggaagcagt 240  
gctgtnagtt actggaagat aaaagggaaa gcaagccctt ggtgggggaa atatggctgc 300  
gatgatggca ttcttaggac accttgnta ntantgaaac aantancctct gagca 355

<210> 914  
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cacaactttg ccgccgtggc cgncgcccgc tactaccgca gtcagcagca gcagcagcag 180  
cagggccttg cgccccccgc gcagcgccgg cgccgcccag cgcgaccctc cccgccgggg 240  
ccgccgcacc tccctcgccg cccttcagct tccanctgcc gcgcgggcct tgtccganc 300  
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acttaaancg gggtcct 377

<210> 915  
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<212> DNA  
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gacaacgccc gtntggctgc agatgaactt ccgaaccaag taagtntctc tntcctgggg 180  
gctgcagaag ccaggactgg ggtaggggtt ggggggttta ggaatntgcc ctcacctagc 240  
ctagatggcc tgaagctaaa cccccctatg gactcctgaa ctctggggag gtagggaagt 300  
cttcagagat gctgaggaag ctctgcctgg ctgcaactat tttccttgaa aggtttgaga 360  
cggaacaggt ttgcgcatga gcgtggtagg ccgacatcaa cggctgngca ggtgctggat 420

gagctgacct ngccagaccg acctggagat gcaatcgaag gcctaaggag agttggctac 480  
tnaagaggac cttagagtgg nttaagttg 509

<210> 916

<211> 135

<212> DNA

<213> Homo sapiens

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<222> (25)

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tnacaacgta acacaangct tacttatagc acccaacaaa antgtctctg tgganccact 120  
tcccagtga ctaca 135

<210> 917

<211> 230

<212> DNA

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gcctccantc ctgcctctan catgtccatc angngaccc agaagtccta caaggngtcc 120  
anctctgggc cccggggctt cagcagccgn tctacacga gtgggnccgg tccccgcac 180  
agctcctcga gnttctccc agtgggnagc agcaactttc gcggtggnct 230

<210> 918  
<211> 529  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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gcgtgggtga gcttcgggtg aatttcgggg ctcttggtcg ccagcgcgct tgccctggtag 180  
caacagaaac cagtcctgct cgcctccgtg gacatttcat taccatccag aagtgtctcc 240

cactgaaggc atccgtggtt gtttttaagc cacaaaaaag ccacanccaa gatcacntga 300  
caaccaccct gacaagtgtt ccatgatgtt gggncngag ggaggtgaag gtttttgtgg 360  
tcaagttcct tggncctgcc tgncccggt tttttgagga cgtgcanaan ttcccttttg 420  
actgaangnt tcaagttggg gcccgaaggt tccatttaat nacattgggg gggcaagcaa 480  
nattggtgng gtttttttga attggttcaa aggtgtttna aaatgnccc 529

<210> 919

<211> 238

<212> DNA

<213> Homo sapiens

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<222> (26)

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agagtagtcc tgggaagatg ggcctctntg aagnagccac ggggacagca tcntgcagat 120  
ggtcctggcc ctntcccac cgacctgtct acaagnactg tgcctcgtgg accctccnnt 180  
ctggcacagg aagctggacc cttaaagtcct ttgtncacc gccaggaan tggtagcc 238

<210> 920  
<211> 442  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (262)  
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<220>  
<221> misc feature  
<222> (268)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
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<221> misc feature

<222> (385)

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<400> 920

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ctcgagtgat ttgagaaaac ttacaaaagg tggaaaatct acgtgggcct ccgaaagtca 120
gatttgacaa gatcaaagct gcaggaaaat ggacagtga gttcagagag atggaaggat 180
cttggatttg attgatgatg cttggcgaga agacaagctg cttatgagg atgtcgcaat 240
accactgaat gagcttcctg ancctganca agacaatggg ggcaccacag atctgtcaaa 300
gancaagaaa tgaagtggac agacttagcc ttacagtacc tccatgagaa tggtccccc 360
attggaaact gacgtttggc tncntctctg tggatggatt ttctcaaagt acacagataa 420
agcatgggtg tttcagtcgt cc 442
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<210> 921

<211> 444

<212> DNA

<213> Homo sapiens

<220>

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<222> (378)

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<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 921

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gtgttagcaa tcagcgagac tccgtgggca taggaacctc cgagccaggt gcgggatgta 120
atctcgtggt gcaccgtttt ttaagccagt ccgaaaagcg caatattcgg gtgggagtga 180
cccaattttc caggtgcgtc cgtaacctt ttctttgact cgaaaaggga actccctgac 240
cccttgcgct tcccaagtga ggcaatgctc tccctgcttc ggctcgcaca cgggtgcgcgc 300
anccactgac ctgtgcccac tgtctggcac tccctagtgt agatgaaccg gtacctcaga 360
tggaatgca gaaatcancc gtcttctgcg tcactcatgc tggagctgta gaccggagct 420
gttcctaata cggcatttgn tcct 444
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<210> 922

<211> 394  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (370)  
<223> n equals a,t,g, or c

<220>  
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<222> (372)  
<223> n equals a,t,g, or c

<220>  
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<222> (374)  
<223> n equals a,t,g, or c

<220>  
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<222> (388)  
<223> n equals a,t,g, or c

<400> 922  
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agcctgcagc cgccccgcgc cgtgacctgc gaccctagac cccgactccc tttggctcag 120  
cccgcgcgcc ccaggcccgg cccgggcggc gcgacgggag gatgagcggc gggcggcgga 180  
aggaggagcc gcctcagccg cagctggcca acggggccct caaagtctcc gtctggagta 240  
agggtgctgcg gacgacgcgg cctggganga taagataatt ttaagngtga ctantgggtc 300  
cgacaatatt ctgtgtcntg gtgtcaattt gggattttcc ataacaggtt cttggaatac 360

agatttgctn anantcagat ctgtactnaa ttca

394

<210> 923

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

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<222> (347)

<223> n equals a,t,g, or c

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<222> (348)

<223> n equals a,t,g, or c

<220>

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<222> (351)

<223> n equals a,t,g, or c

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tactagacca atgggactta aaccacaaaa cacttagtta acagctaagc accctaataca 120  
actggcttca atctactttt cccgccgccc ggaaaaaagg cgggagaagc cccggcaggt 180  
ttgaagctgc ttcttcgaat ttgcaattca atatgaaaat cacctcggag ctggtaaaaa 240  
gaggcctaac ccctgtcttt agatttacag tccaatgctt cactcagcca ttttacctca 300  
cccccaaaaa aaaaaaaaaa aaaaaaaacc ncgggggggg ncccggnncc na 352

<210> 924

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
 <222> (433)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (435)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (436)  
 <223> n equals a,t,g, or c

<400> 924  
 ccactccacc ttactaccag acaaccttag ccaaaccatt tacccaaata aagtataggc 60  
 gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat gaaaaattat 120  
 aaccaagcat aatatagcaa ggactaaccct ctataccttc tgcataatga attaaactaga 180  
 aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc tacctaagaa 240  
 cagctaaaag agcacaccgc tctatgtagc aaaatagtgg gaagatttat aggttagaggc 300  
 gacaaacctt ccgagcctgg tgatagctgg ttgtccaaga tagaatctta gttcaacttt 360  
 aaatttgnc cccagaccct ctaaattccc ttgtaaattt aactgggttag tccaaagagg 420  
 gacagctctt tgngnn 436

<210> 925  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<400> 925  
 cccaaaccca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60  
 tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa 120  
 aaattataac caagcataat atagcaagga ctaaccctta taccttctgc ataataaatt 180  
 aactagaaat aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac 240  
 ctaagaacag ctaaaagagc acaccgctct atgtagcaaa atagtgggaa gatttatagg 300  
 tagaggcgac aaacctaccg agcctgggtg tagctgggtg tccaagatag aatcttttagt 360  
 tcaactttta atttgccac agaacctcta aatccccttg taaatttaac tggtaagtcc 420  
 caaggaggac agtcttttg 439

<210> 926  
 <211> 183  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (179)  
 <223> n equals a,t,g, or c

<400> 926  
 caatctatca ccctatagaa gaactaatgt tagtataagt aacatgaaaa cattctcctc 60



cgcataagcc tgcgtcagat taaaacactg aactgacaat taacagccca atatctacaa 120  
tcaaccaaca agtcattatt accctcactg tcaacccaac aaaaaaaaaa aaaaaaaaaana 180  
aaa 183

<210> 927

<211> 432

<212> DNA

<213> Homo sapiens

<400> 927

cggaagtgga ggaaagatgg aggaccatca gcacgtgccc atcgacatcc agaccagcaa 60  
gctgctcgat tggctggtgg acagaaggca ctgcagcctg aaatggcaga gtctggtgct 120  
gacgatccgc gagaagatca atgctgccat ccaggacatg ccagagagcg aagagatcgc 180  
ccagctgctg tctgggtcct acattcacta ctttcactgc ctaagaatcc tggaccttct 240  
caaaggcaca gaggcctcca cgaagaatat ttttgccga tactcttcac agcggatgaa 300  
ggattggcag gagattatag ctctgtatga gaaggacaac acctacttag tggaaactctc 360  
tagcctcctg gttcggaatg tcaactatga gatccccctca ctgaagaagc agattgccaa 420  
gtgccagcag ct 432

<210> 928

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<400> 928

agacaacctt agccaaacca tttaacccaaa taaagtatag gcgatagaaa ttgaaacctg 60  
gcgcaataga tatagtaccg caaggnaaag atgaaaaatt ataaccaagc ataatatagc 120  
aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180  
gccaaagcta agacccccga aaccagacga gctacctaaag aacagctaaa agagcacacc 240  
cgtctatgta gcaaaatagt gggaagattt ataggtagag gcgacaaacc taccgagcct 300  
ggtgatagct ggttggtccaa gatagtatct tagttcaact tttaaatttgc ccacagaacc 360

ctctaaatcc ccttgtaaatt ttaactgtta gtcccaagag ggacagctct ttngncacta 420  
gggaaaaacc ttgtaggggn 439

<210> 929

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 929

ctgcattcag cattttaagg atttatattc atagtcacgc gccgcttaag gaggattcat 60  
tctgtgaaat gagttgttag gcagtttcat tgtgcgagca tcataggggtg aacttacaca 120  
aacctagggtt gcagagccta ctgcacacct cggctgtgtg gtctaacctg ttgctcctgg 180  
actgcaaacc tgtacagcct gttactgtcc tgaatactgc aggcagtttag aacagagtgg 240  
tacatagtgtg tgtttctaaa catatcggaa cctagaaaag gtacagtaga aatacgggtat 300  
tacaatctta tgggaccact gtctgtgtgc ggtctgttgt tgactgaaat gttatgcagt 360  
acatgggctg ccatgagatt acctganaa ttttgcctga tatgaaacct agatatnacc 420  
ttaaatatgg gna 433

<210> 930

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 930

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gtcccccaact cggagctcct ccagcccgcgt tcccgtatatt gcagcatgct ccggcggttca 60
cagagcttggt ctgcctcctc tgtcccagga gagagatgct tagagctgtc ctcccaggga 120
gtcatgtcag cctctagggt gtgcatggga gctgagggga cactcctgct gcctccctgg 180
agtggtaatt aaccgggact ttcctcctcc cagaaccaac atcccgggta acggttgggc 240
tgaaggacag gtgacgtgtc cctaactccc ccccttcctt gcccgagggt ccggcatcca 300
acgtcttggt ttcctggtct tcaagcagga cnaccgattg gcttttctga agangcaagn 360
ccttaacctg gtaanttaaa acaaccanaa 390
```

<210> 931

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 931  
cggtacgcgt gggcggacgc gtgggcggac gcgtggggcc atctcacctc ttcattctct 60  
tgttacattt gaagcagttg atataatggg tttatacttt aaaagataga catggtgccca 120  
tgaagttggg gagttgggtg aattatccca ttctagttac agangagctt tccttaaagt 180  
ccctttaact tctaggtttt gttcnagaag ttcattttct gagttaaaag tnattttcat 240  
atatgttttg gggaaaatta actcatcctc aaaagaatc cttattaggt tanttnaact 300  
ccttaaaact naaccnaatc 320

<210> 932  
<211> 265  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<400> 932  
aaaaaagata tattaacagt tttagaagtc agtagaataa aatcttaaag cactcataat 60  
atggcatcct tcaatttctg tataaaagca gatcttttta aaaagatact tctgtaactt 120  
aagaaacctg gcatttaaat catattttgt ctttaggtta aagctttggt ttgtgttcgt 180  
gttttgtttg tttcacttgt ttccctccca gcccacaaacc tttgtttctc tccgtgaaac 240  
ttacctttcc ctttttcttt ctctt 265

<210> 933  
<211> 475  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (102)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (463)  
<223> n equals a,t,g, or c

<400> 933  
gtggnggcgc tncatagaact atggatcccc cggctgncag gattacggnc acgagcaagg 60  
gcagtgttac acttatgagg aactgtctct agccatccag gnaagtacta ctgggtctga 120  
gggatggaaa gttcttcctg ctatgaatga gagtggactc ttccctcac cccaactga 180  
aaccacaaac aaccagaatc ttctggaatt ctgacttaga gtcgttgta tagaagacct 240  
tggtgctatg gaacatgaaa ctgtgtgtca gatggagaga tcccttaac ctaagagcct 300  
taaatagcc tgaaagtaca ctgggacggt ttgcgatgga attaaaattg gaagtatat 360  
ttttaggtgc tcttgaaagc tttctgggga ctcaaaatta tcaaaagtca gggacagtcc 420  
ggaggaagag cgtctgcaaa actgggttcc tagaagtata gancggactt agctg 475

<210> 934  
<211> 322  
<212> DNA  
<213> Homo sapiens

<400> 934  
ataaacaaca tctccagaca gatctacctg accgacaacc ctgaggcagt cgcgatcaag 60  
ttgaatcaga ccgctctgca agcagtgact cccattacaa gttttggaaa aaaacaagaa 120  
agctcatgcc ccagccagaa cctgaaaaat tcagagatgg aaaatgaaaa tgacaagatt 180  
gttcccaaag caacagccag tctacctgaa gcagaggagc tgatcgcgcc tggaaagccg 240  
attcaattcg atattgtgct tcctgctaca gaattccttg atcagaacag agggagcagg 300  
cgtaccaacc cttttggtga aa 322

<210> 935  
<211> 378  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (124)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (301)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (326)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<400> 935  
ggcagaggag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60  
ttgcacgctc tttaagagtc tgacttgag gaactctgcc attaccagct cccttcttgc 120  
nnangccggt gggaaacata catttattca tgccagtctg ttgcatgcag gctttttggc 180  
ttcctacctt gcaacaaaat gaattgcacc aactccttag tgccgattcc gccacagag 240  
agtccctggag ccacagtctt ttttgctttg cattgtagga gagggactaa gtgctagaga 300  
ntatgtcggt ttccctgagc taaccnngag cgttcgtgga actgggatca aactgntttc 360  
agggnaaaag gaaaaaaa 378

<210> 936

<211> 450  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (202)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (230)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (304)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (396)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 936

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ggtggtaagt ggcttcgtgg tctttatagc tgttactott ttgtactttg tctttttctt 60
ttattttctt ttgagcgatt gtgcgaacat agcatagcac gcactatgcc ttctgtgttg 120
tagctgcctg gccagggcga ctggcggata aggtcttgtg cgtggcctcg angcttaaaa 180
gtaacagtgg ggctttgtga angacaaaat ggcgatggcg ggccgtgtan gtcccccttc 240
ctatgatgaa agaccttttc acagacctgt tactgaactc cgtgaagata aatantctga 300
aganatnggc cctgcaagcc tcttgcttac ccgtcctggt ccaaaaaaat acgttttcca 360
aatgccctg aatttgaact aatntcttat tgggcncctg ntctgccaga tttaccnca 420
ctttggaaca aaaaaaanc tttgtttgc 450
```

<210> 937

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 937

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agtcttaaga ccaannaagc acgnaagcgc cgtgaagagc gcctccaggc caagnaggag 60
gngatcatca agactttatc caaggaggaa gagaccaaga aataaaacct cccactttgt 120
ctgtacatac tggcctctgt gattacatag atcagccatt gaaaataaaa caagncttaa 180
tctgcanata ngacaagnan aaaatttcg                                     209
```

<210> 938

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 938

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cagaactgat agaacaaaca ctactctttt gaatttgatg gttcgtgtcc tttaaagtgt 60
ttgaggacct atgcagagcc tgtaacactt ggtagtacc tgctaggaca atttcttggc 120
aattgtctta ctactaggga tcagtaagat ttagattctg agcccataat ggcaacagcc 180
ccctcaccta tgggaagctg acttccctca gtcgggcact tctcatgggg gctgaacatg 240
gttcctgccca ttctgttacc cactctccca ggtgagccct ggattggctc ccagaaggcc 300
ttgtaaaaaat ccatagccat cctgcaggca gtgggagcaa caggggcttt catagcttca 360
tttcnngtct tgcagacaag gaccctgggn aacatgtgct gctaataanga taattactcc 420
gttgncnaa ttaccag 437
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<210> 939

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature .

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 939

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cngacgcgtg ggtcgaccna cgcgtccgcc cagcgcgtccg cccacgcgtc cgacgacaga 60
agggtacggc tgcgagaaga cgcagaaggg tacggctgcg agaagacgnn agaaggggct 120
tttcacattc gggaaacgtc gggattaggt gaaagtacgt agttgtcttt cgtaagtcaa 180
aatgataatt gggccgaaac ttactgcctt acctaaaagg cagcgcagtc aggatattgg 240
taggtcgggg gcggtcttgg aaacccttaa gtttacaagc atgcgcggac ttgagtgtc 300
attaggtcgc cgggcgtcca cgtgcagccc tggaccctga accccggcgt gcgttggccg 360
tnggcctcgg ggaaggttc cgtgcactcg gggantccgg tgaagctgtt cagccgtctg 420
tgncatgtgg ccatcttgan tctactctgt 450
```

<210> 940

<211> 233

<212> DNA

<213> Homo sapiens

<400> 940

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ggagcgcttg tgggagccct ggaggggaact ttcccagtc cggaggcgga tcgggtgttg 60
catccatgga gcgagctgag agctcgagta cagaacctgc taaggcctatc aaacctattg 120
atcagaagtc agtccatcag atttgctctg ggcaggtggt actgagtcta agcactgcgg 180
taaaggagtt agtagaaaac agtctggatg ctggtgccac taatattgat cta 233
```

<210> 941

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 941

His Glu Cys Ala Cys Leu Pro Gly Tyr Ala Gly Asp Gly His Gln Cys  
 1 5 10 15  
 Thr Asp Val Asp Glu Cys Ser Glu Asn Arg Cys His Pro Ala Ala Thr  
 20 25 30  
 Cys Tyr Asn Thr Pro Gly Ser Phe Ser Cys Arg Cys Gln Pro Gly Tyr  
 35 40 45  
 Tyr Gly Asp Gly Phe Gln Cys Ile Pro Asp Ser Thr Ser Ser Leu Thr  
 50 55 60  
 Pro Cys Glu Gln Gln Gln Arg His Ala Gln Ala Gln Tyr Ala Tyr Pro  
 65 70 75 80  
 Gly Ala Arg Phe His Ile Pro Gln Cys Asp Glu Gln Gly Asn Phe Leu  
 85 90 95  
 Pro Leu Gln Cys His Gly Ser Thr Gly Phe Cys Trp Cys Val Asp Pro  
 100 105 110  
 Asp Gly His Glu Val Pro Gly Thr Gln Thr Pro Pro Gly Ser Thr Pro  
 115 120 125  
 Pro His Cys Gly Pro Ser Pro Glu Pro Thr Gln Arg Pro Pro Thr Ile  
 130 135 140  
 Cys Glu Arg Trp Arg Glu Asn Leu Leu Glu His Tyr Gly Gly Thr Pro  
 145 150 155 160  
 Arg Asp Asp Gln Tyr Val Pro Gln Cys Asp Asp Leu Gly His Phe Ile  
 165 170 175  
 Pro Leu Gln Cys His Gly Lys Ser Asp Phe Cys Trp Cys Val Asp Lys  
 180 185 190  
 Asp Gly Arg Glu Val Gln Gly Thr Gly Xaa Pro Ala Arg His His Pro  
 195 200 205  
 Cys Val Tyr Thr His Arg Arg Ser Xaa His Gly Pro Ala His Ala Pro  
 210 215 220  
 Ala Arg Cys Xaa Pro Ser Ile Cys Gly Gln Leu Pro Gly Ala  
 225 230 235

&lt;210&gt; 942

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 942

Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr  
 1 5 10 15

Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly  
 20 25 30

Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His  
 35 40 45

Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly  
 50 55 60

Met Ser Lys Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala  
 65 70 75 80

Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp  
 85 90 95

Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser  
 100 105 110

Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro  
 115 120 125

Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Arg Thr Lys Asp Ser  
 130 135 140

Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp  
 145 150 155 160

Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu  
 165 170 175

Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp  
 180 185 190

Gly Met Asn Ser Ser Lys Ile Ser Ile Lys Leu Ser Lys Asp His Asp  
 195 200 205

Asn Asp Asn Asn Leu Tyr Val Ala Lys Leu Asn Asn Gly Phe Asn Ser  
 210 215 220

Gly Ser Gly Ser Ser Ser Thr Lys Leu Lys Ile Gln Leu Lys Arg Asp  
 225 230 235 240

Glu Glu Asn Arg Gly Ser Tyr Thr Glu Gly Leu His Glu Asn Gly Val  
 245 250 255

Cys Cys Ser Asp Pro Leu Ser Leu Leu Glu Ser Arg Met Glu Val Asp  
 260 265 270

Asp Tyr Ser Gln Tyr Glu Glu Glu Ser Thr Asp Asp Ser Ser Ser Ser  
 275 280 285

Glu Gly Asp Glu Glu Glu Asp Asp Tyr Asp Asp Asp Phe Glu Asp Asp  
 290 295 300

Phe Ile Pro Leu Pro Pro Ala Lys Arg Leu Arg Leu Ile Val Gly Lys  
 305 310 315 320

Asp Ser Ile Asp Ile Asp Ile Ser Ser Arg Arg Arg Glu Asp Gln Ser  
 325 330 335

Leu Arg Leu Asn Ala  
 340

<210> 943

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 943

Xaa Leu Leu Lys Val Trp Arg Ala Xaa Gln Val Ser Val Ala Tyr Asn  
 1 5 10 15

Ser Leu Asp Phe Glu Pro Glu Ile Phe Phe Ala Leu Gly Ser Pro Ile  
 20 25 30

Ala Met Phe Leu Thr Ile Arg Gly Val Asp Arg Ile Asp Glu Asn Tyr  
 35 40 45

Ser Leu Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro Leu Asp  
 50 55 60  
 Pro Val Ala Tyr Arg Leu Glu Pro Met Ile Val Pro Asp Leu Asp Leu  
 65 70 75 80  
 Lys Ala Val Leu Ile Pro His His Lys Gly Arg Lys Arg Leu His Leu  
 85 90 95  
 Glu Leu Lys Glu Ser Leu Ser Arg Met Gly Ser Asp Leu Lys Gln Gly  
 100 105 110  
 Phe Ile Ser Ser Leu Lys Ser Ala Trp Gln Thr Leu Asn Glu Phe Ala  
 115 120 125  
 Arg Ala His Thr Ser Ser Thr Gln Leu Gln Glu Glu Leu Glu Lys Val  
 130 135 140  
 Ala Asn Gln Ile Lys Glu Glu Glu Lys Gln Val Val Glu Ala Glu  
 145 150 155 160  
 Lys Val Val Glu Ser Pro Asp Phe Ser Lys Asp Glu Asp Tyr Leu Gly  
 165 170 175  
 Lys Val Gly Lys Val Lys Trp Arg Pro Pro Xaa Leu Thr Thr Phe Ser  
 180 185 190  
 Lys Lys Asn Gln  
 195

&lt;210&gt; 944

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 944

Pro His Gly Leu Arg Cys Pro Ser Cys Pro Gln Thr Ala Val Ser Arg  
 1 5 10 15  
 Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg Arg Ile  
 20 25 30  
 Gln Glu Leu Glu Glu Arg Arg Arg Xaa Phe Val Glu Ala Cys Arg Ala  
 35 40 45

Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro His Arg Val  
 50 55 60

Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala Ser Glu Val  
 65 70 75 80

Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe Ile Asn Arg  
 85 90 95

Glu

&lt;210&gt; 945

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 945

Ser Gly Ser Pro Gly Leu Gln Glu Phe Arg Ala Pro Gly Val Gln Gln  
 1 5 10 15

Asp Glu Arg Leu Ala Ser Pro Ile His Ser Thr Tyr Ile Pro Ile Pro  
 20 25 30

Thr Ser Ala Ile Cys Ala Thr Gly Ser Asn Gly Ser Ala Pro Thr Arg  
 35 40 45

Ile Ser Val Gln Cys Leu Ser Pro Ala Thr Thr Gly Ser Ala Ser Val  
 50 55 60

Asp Leu Cys Cys Thr Arg Asp Ile Ser Leu Leu Pro Gly Glu Pro Pro  
 65 70 75 80

Ile Ala Val Pro Thr Gly Val Phe Gly Pro Leu Pro Thr Gly Ser Val  
 85 90 95

Gly Leu Leu Phe Asp Leu Ser Ser Leu Asn Leu Lys Gly Val Gln Val  
 100 105 110

His Thr Gly Val Ile Asp Ser Asp Ile Gln Val  
 115 120

&lt;210&gt; 946

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<400> 946

Gly Phe Leu Gly Leu Leu Phe Met Pro Gln Ala Thr Tyr Pro Gly Glu  
1 5 10 15

Ser Leu Pro Val Leu Leu His Glu Phe Leu Ser His Arg Met His Val  
20 25 30

Pro Leu His Phe Val Thr Ser Val Ser Pro Thr Arg Gln  
35 40 45

<210> 947

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

Gly Pro Arg Arg Gly Pro Gly Pro Gly Gly Cys Ala Ala Pro Ala Thr  
1 5 10 15

Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Xaa Leu Xaa Glu Val Thr  
20 25 30

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro  
35 40 45

Gln Gly Ala Ser Ser Leu Pro Xaa Thr Met Asn Tyr Pro Leu Trp Ser  
50 55 60

Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser Thr  
65 70 75 80

Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val  
85 90 95

Ala Lys Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Xaa Glu Pro  
100 105 110

Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Lys Leu Ala Ser  
115 120 125

Thr Ser Phe Xaa Xaa Ile Phe Lys Gln Lys Leu Ser Asp Phe Leu Cys  
130 135 140

Asn Leu Xaa Phe Trp His Ser Lys Leu Glu Trp Xaa Val Gly Pro Pro  
145 150 155 160

<210> 948

<211> 53

<212> PRT

<213> Homo sapiens

<400> 948

Ser Asn Trp Ile Ile Asp Cys Asn Cys Leu Glu Ile Tyr His Lys Asn  
1 5 10 15

Arg Leu Cys Phe Phe Gly Ile Ala Pro Asn Phe Ser Leu Leu Leu Arg  
20 25 30

Ala Ala His Ala Val Leu Ser Ser Tyr Trp Ser Gln Pro Leu Gly Glu  
35 40 45

Glu Arg Asn Ala Trp  
50

<210> 949

<211> 154

<212> PRT

<213> Homo sapiens

<400> 949

Trp Asp Tyr Ile Leu Cys Ala Gly Leu Arg Glu His Glu Glu Gly Ala  
1 5 10 15

Ile Cys His Thr Leu Glu Ala Glu Ala Cys Thr Ser Ala Ala Arg Leu  
20 25 30

Thr Val Val Gly Gly Gly Asp Gly Asn Cys Arg Ser Ala Arg Val Val  
35 40 45

Glu Lys Leu Leu Gln Gly Phe Ser Gly Phe Ala Cys Pro Ala Ala Pro  
50 55 60

Cys Leu Ala Arg Gly Glu Gly Gly Ala Thr Cys Gly Thr Leu Glu Ala  
65 70 75 80

Gly Ala Cys Arg Trp His Gly Ser Ala Ala His Leu Ala Ala Val Gly  
85 90 95

Gly Gly Asp Arg Asp Cys Ser Leu Thr Val Val Asn Leu Glu Ile Ile  
100 105 110

Cys Leu Glu Ala Leu Ser Leu Ser Trp Asp Leu Lys Arg Arg Gly Ser  
115 120 125

Pro Asn Ser Gln Gln Ser Asn Ser Lys Trp Cys Cys Lys Leu Asn His  
130 135 140

Thr Trp Thr Gly His Ser Ser Glu Asp Pro  
145 150

<210> 950

&lt;211&gt; 442

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 950

Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp  
 1 5 10 15

Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys  
 20 25 30

Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala  
 35 40 45

Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe  
 50 55 60

Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val  
 65 70 75 80

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile  
 85 90 95

Asp Ala Met Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr  
 100 105 110

Gly His Val Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr  
 115 120 125

Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr  
 130 135 140

Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln  
 145 150 155 160

Lys Leu Gly Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu  
 165 170 175

Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile  
 180 185 190

Ser Ala Asn Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile  
 195 200 205

Met Pro Tyr Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val  
 210 215 220

Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln  
 225 230 235 240

Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu



Ile Phe Pro Leu Ala Val Phe Leu Cys Ser Leu Leu Pro Leu Phe Phe  
                   35                  40                  45

Pro Trp Phe Val Ile Ile Arg Arg Glu Val Leu Gln Arg Leu Val Ala  
           50                  55                  60

Val Lys Glu Ser Phe Phe Asn Phe Tyr Pro Arg Val Ser His Phe Tyr  
   65                  70                  75                  80

Ser Arg

<210> 952  
 <211> 475  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (465)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (468)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (469)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 952  
 Leu Val Leu Pro Leu His Ala Val Glu Lys Thr Gly Arg Pro Gly Gln  
   1                  5                  10                  15

Pro Ala Leu Lys Met Pro Gly Lys Leu Arg Ser Asp Ala Gly Leu Glu  
           20                  25                  30

Ser Asp Thr Ala Met Lys Lys Gly Glu Thr Leu Arg Lys Gln Thr Glu  
   35                  40                  45

Glu Lys Glu Lys Lys Glu Lys Pro Lys Ser Asp Lys Thr Glu Glu Ile  
   50                  55                  60

Ala Glu Glu Glu Glu Thr Val Phe Pro Lys Ala Lys Gln Val Lys Lys  
   65                  70                  75                  80

Lys	Ala	Glu	Pro	Ser	Glu	Val	Asp	Met	Asn	Ser	Pro	Lys	Ser	Lys	Lys	
				85							90			95		
Ala	Lys	Lys	Lys	Glu	Glu	Pro	Ser	Gln	Asn	Asp	Ile	Ser	Pro	Lys	Thr	
				100							105			110		
Lys	Ser	Leu	Arg	Lys	Lys	Lys	Glu	Pro	Ile	Glu	Lys	Lys	Val	Val	Ser	
				115							120			125		
Ser	Lys	Thr	Lys	Lys	Val	Thr	Lys	Asn	Glu	Glu	Pro	Ser	Glu	Glu	Glu	
				130							135			140		
Ile	Asp	Ala	Pro	Lys	Pro	Lys	Lys	Met	Lys	Lys	Glu	Lys	Glu	Met	Asn	
				145							150			155		
Gly	Glu	Thr	Arg	Glu	Lys	Ser	Pro	Lys	Leu	Lys	Asn	Gly	Phe	Pro	His	
				165							170			175		
Pro	Glu	Pro	Asp	Cys	Asn	Pro	Ser	Glu	Ala	Ala	Ser	Glu	Glu	Ser	Asn	
				180							185			190		
Ser	Glu	Ile	Glu	Gln	Glu	Ile	Pro	Val	Glu	Gln	Lys	Glu	Gly	Ala	Phe	
				195							200			205		
Ser	Asn	Phe	Pro	Ile	Ser	Glu	Glu	Thr	Ile	Lys	Leu	Leu	Lys	Gly	Arg	
				210							215			220		
Gly	Val	Thr	Phe	Leu	Phe	Pro	Ile	Gln	Ala	Lys	Thr	Phe	His	His	Val	
				225							230			235		
Tyr	Ser	Gly	Lys	Asp	Leu	Ile	Ala	Gln	Ala	Arg	Thr	Gly	Thr	Gly	Lys	
				245							250			255		
Thr	Phe	Ser	Phe	Ala	Ile	Pro	Leu	Ile	Glu	Lys	Leu	His	Gly	Glu	Leu	
				260							265			270		
Gln	Asp	Arg	Lys	Arg	Gly	Arg	Ala	Pro	Gln	Val	Leu	Val	Leu	Ala	Pro	
				275							280			285		
Thr	Arg	Glu	Leu	Ala	Asn	Gln	Val	Ser	Lys	Asp	Phe	Ser	Asp	Ile	Thr	
				290							295			300		
Lys	Lys	Leu	Ser	Val	Ala	Cys	Phe	Tyr	Gly	Gly	Thr	Pro	Tyr	Gly	Gly	
				305							310			315		
Gln	Phe	Glu	Arg	Met	Arg	Asn	Gly	Ile	Asp	Ile	Leu	Val	Gly	Thr	Pro	
				325							330			335		
Gly	Arg	Ile	Lys	Asp	His	Ile	Gln	Asn	Gly	Lys	Leu	Asp	Leu	Thr	Lys	
				340							345			350		

Leu Lys His Val Val Leu Asp Glu Val Asp Gln Met Leu Asp Met Gly  
355 360 365

Phe Ala Asp Gln Val Glu Glu Ile Leu Ser Val Ala Tyr Lys Lys Asp  
370 375 380

Ser Glu Asp Asn Pro Gln Thr Leu Leu Phe Ser Ala Thr Cys Pro His  
385 390 395 400

Trp Val Phe Asn Val Ala Lys Lys Tyr Met Lys Ser Thr Tyr Glu Gln  
405 410 415

Val Asp Leu Ile Gly Lys Lys Thr Gln Lys Thr Ala Ile Thr Val Glu  
420 425 430

His Leu Ala Ile Lys Cys His Trp Thr Gln Arg Ala Ala Val Ile Gly  
435 440 445

Asp Val Ile Arg Val Tyr Ser Gly His Gln Gly Arg Thr Ile Ile Phe  
450 455 460

Xaa Glu Thr Xaa Xaa Glu Ala Gln Glu Leu Ser  
465 470 475

<210> 953

**<211> 259**

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (115)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 953**

His Glu Ala Lys Trp Ala Arg Glu Glu Glu Glu Ala Gln Arg Arg Leu  
1 5 10 15

Glu Glu Asn Arg Leu Arg Met Glu Glu Glu Ala Ala Arg Leu Arg His  
20 25 30

Glu Glu Glu Glu Arg Lys Arg Lys Ala Leu Glu Val Gln Arg Gln Lys  
35 40 45

Glu Leu Met Arg Gln Arg Gln Gln Gln Gln Glu Ala Leu Arg Arg Leu  
50 55 60

Gln Gln Gln Gln Gln Gln Gln Gln Leu Ala Gln Met Lys Leu Pro Ser  
65 70 75 80



Ser Ser Thr Trp Gly Gln Gln Ser Asn Thr Thr Ala Cys Gln Ser Gln  
85 90 95

Ala Thr Leu Ser Leu Ala Glu Ile Gln Lys Leu Glu Glu Glu Arg Glu  
100 105 110

Arg Gln Xaa Arg Glu Glu Gln Arg Arg Gln Gln Arg Glu Leu Met Lys  
115 120 125

Ala Leu Gln Gln Gln Gln Gln Gln Gln Gln Lys Leu Ser Gly Trp  
130 135 140

Gly Asn Val Ser Lys Pro Ser Gly Thr Thr Lys Ser Leu Leu Glu Ile  
145 150 155 160

Gln Gln Glu Glu Ala Arg Gln Met Gln Lys Gln Gln Gln Gln Gln Gln  
165 170 175

Gln His Gln Gln Pro Asn Arg Ala Arg Asn Asn Thr His Ser Asn Leu  
180 185 190

His Thr Ser Ile Gly Asn Ser Val Trp Gly Ser Ile Asn Thr Gly Pro  
195 200 205

Pro Asn Gln Trp Ala Ser Asp Leu Val Ser Ser Ile Trp Ser Asn Ala  
210 215 220

Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp Asp Ala Val Lys Glu  
225 230 235 240

Val Gly Pro Arg Asn Ser Thr Asn Lys Asn Lys Asn Asn Ala Ile Ser  
245 250 255

Val Asn Leu

&lt;210&gt; 954

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 954

Ile Val Tyr Val Pro Ser His Leu His His Met Xaa Phe Glu Leu Phe  
1 5 10 15

Xaa Asn Ala Met Arg Ala Thr Val Glu His Gln Glu Asn Gln Pro Xaa  
20 25 30

Leu Thr Pro Ile Glu Val Ile Val Ala Leu Gly Lys Glu Asp Leu Thr  
35 40 45

Ile Lys Ile Ser Asp Arg Gly Gly Gly Val Pro Leu Arg Ile Ile Asp  
50 55 60

Arg Leu Phe Ser Tyr Thr Tyr Ser Thr Ala Pro Thr Pro Val Met Asp  
65 70 75 80

Asn Ser Arg Asn Ala Pro Leu Ala Gly Phe Gly Tyr Gly Leu Pro Ile  
85 90 95

Ser Arg Leu Tyr Ala Lys Tyr Phe Gln Gly Xaa Leu Asn Leu Tyr Ser  
100 105 110

Leu Xaa Gly Tyr Gly Thr Asp Ala Ile Ile Tyr Leu Lys Ala Leu Val

115	120	125
Thr Xaa Cys Gln Phe Leu Val Cys Met Gln Ser Thr Phe Lys Glu Xaa		
130	135	140

<210> 955  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 955  
 Thr Arg Pro Arg Thr Arg Gly Leu Trp Arg Pro Gly Trp Arg Cys Val  
 1 5 10 15  
 Pro Phe Cys Gly Trp Arg Trp Ile His Pro Gly Ser Pro Thr Arg Ala  
 20 25 30  
 Ala Glu Arg Val Glu Pro Phe Leu Arg Pro Glu Trp Ser Gly Thr Gly  
 35 40 45  
 Gly Ala Glu Arg Gly Leu Arg Trp Leu Gly Thr Trp Lys Arg Cys Ser  
 50 55 60  
 Leu Arg Ala Arg His Pro Ala Leu Gln Pro Pro Arg Arg Pro Lys Ser  
 65 70 75 80  
 Ser Asn Pro Phe Thr Arg Ala Gln Glu Glu Glu Arg Arg Arg Gln Asn  
 85 90 95  
 Lys Thr Thr Leu Thr Tyr Val Ala Ala Val Ala Val Gly Met Leu Gly  
 100 105 110  
 Ala Ser Tyr Ala Ala Val Pro Leu Tyr Arg Leu Tyr Cys Gln Thr Thr  
 115 120 125  
 Gly Leu Gly Gly Ser Ala Val Ala Gly His Ala Ser Asp Lys Ile Glu  
 130 135 140  
 Asn Met Val Pro Val Lys Asp Arg Ile Ile Lys Ile Ser Phe Asn Ala  
 145 150 155 160  
 Asp Val His Ala Ser Leu Gln Trp Asn Phe Arg Pro Gln Gln Thr Glu  
 165 170 175  
 Ile Tyr Val Val Pro Gly Glu Thr Ala Leu Ala Phe Tyr Arg Ala Lys  
 180 185 190

Asn Pro Thr Asp Lys Pro Val Ile Gly Ile Ser Thr Tyr Asn Ile Val  
 195 200 205  
 Pro Phe Glu Ala Gly Gln Tyr Phe Asn Lys Ile Gln Cys Phe Cys Phe  
 210 215 220  
 Glu Glu Gln Arg Leu Asn Pro Gln Glu Glu Val Gly Tyr Ala Ser Val  
 225 230 235 240  
 Phe Leu His

<210> 956  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 956  
 Gly Leu Val Val Thr Leu Leu Thr His Xaa Phe Xaa Ile Asn Ser Xaa  
 1 5 10 15

Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn  
 20 25 30

Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe  
 35 40 45

Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met  
 50 55 60

Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile  
 65 70 75 80

[illegible]

<210> 957

<211> 124

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (119)**

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 957

Ser Arg Ser Pro Val Leu Asp Pro Ser Glu Pro Gln Pro Leu Ala Ala  
1 5 10 15

Met His Val Ile Lys Arg Asp Gly Arg Gln Glu Arg Val Met Phe Asp  
20 25 30

Lys Ile Thr Ser Arg Ile Gln Lys Leu Cys Tyr Gly Leu Asn Met Asp  
35 40 45

Phe Val Asp Pro Ala Gln Ile Thr Met Lys Val Ile Gln Gly Leu Tyr  
50 55 60

Ser Gly Val Thr Thr Val Glu Leu Asp Thr Leu Ala Ala Glu Thr Ala  
65 70 75 80

Ala Thr Leu Thr Thr Lys His Pro Asp Tyr Ala Ile Leu Ala Ala Arg  
85 90 95

Ile Ala Val Ser Asn Leu His Lys Glu Thr Lys Lys Val Phe Ser Asp  
                   100                  105                  110

Val Met Glu Asp Leu Tyr Xaa Leu His Lys Ser Thr  
                   115                  120

<210> 958

<211> 117

<212> PRT

<213> Homo sapiens

<400> 958

Ser Ile Met Phe Val Ala Leu Met Lys Tyr Phe Gln Glu Met Cys Pro  
   1                  5                  10                  15

Gly Val Ala Leu Ala Met Leu Thr Arg Pro Leu Val Thr Gln Arg Ala  
                   20                  25                  30

Leu Gly Pro Asp Gly Asp Leu Pro Leu Arg Phe Leu Tyr Gln Ala Leu  
                   35                  40                  45

Ser Ser His Gly Ala Ser Gly Thr Ser Leu Leu Ser Trp Glu Lys Gly  
                   50                  55                  60

Asn Trp Leu Pro Arg Gln Val Val Glu Ser Val Ala Gly Thr Arg Leu  
   65                  70                  75                  80

Glu Ala His Leu Val Val Asn Arg Ala Gln Trp Gly Arg Leu Gly Met  
                   85                  90                  95

Leu Trp Ser Met Gly Leu Phe Pro Gly Glu Cys Ser Gly Met Ser Ser  
                   100                  105                  110

Gln Leu Leu Trp Cys  
                   115

<210> 959

<211> 267

<212> PRT

<213> Homo sapiens

<400> 959

Ser Met Pro Gly Trp Arg Leu Leu Thr Gln Val Gly Ala Gln Val Leu  
   1                  5                  10                  15

Gly Arg Leu Gly Asp Gly Leu Gly Ala Ala Leu Gly Pro Gly Asn Arg

20	25	30
Thr His Ile Trp Leu Phe Val Arg Gly Leu His Gly Lys Ser Gly Thr		
35	40	45
Trp Trp Asp Glu His Leu Ser Glu Glu Asn Val Pro Phe Ile Lys Gln		
50	55	60
Leu Val Ser Asp Glu Asp Lys Ala Gln Leu Ala Ser Lys Leu Cys Pro		
65	70	75 80
Leu Lys Asp Glu Pro Trp Pro Ile His Pro Trp Glu Pro Gly Ser Phe		
	85 90	95
Arg Val Gly Leu Ile Ala Leu Lys Leu Gly Met Met Pro Leu Trp Thr		
	100 105	110
Lys Asp Gly Gln Lys His Val Val Thr Leu Leu Gln Val Gln Asp Cys		
	115 120	125
His Val Leu Lys Tyr Thr Ser Lys Glu Asn Cys Asn Gly Lys Met Ala		
	130 135	140
Thr Leu Ser Val Gly Gly Lys Thr Val Ser Arg Phe Arg Lys Ala Thr		
145	150 155	160
Ser Ile Leu Glu Phe Tyr Arg Glu Leu Gly Leu Pro Pro Lys Gln Thr		
	165 170	175
Val Lys Ile Phe Asn Ile Thr Asp Asn Ala Ala Ile Lys Pro Gly Thr		
	180 185	190
Pro Leu Tyr Ala Ala His Phe Arg Pro Gly Gln Tyr Val Asp Val Thr		
	195 200	205
Ala Lys Thr Ile Gly Lys Gly Phe Gln Gly Val Met Lys Arg Trp Gly		
	210 215	220
Phe Lys Gly Gln Pro Ala Thr His Gly Gln Thr Lys Thr His Arg Arg		
225	230 235	240
Pro Gly Ala Val Ala Thr Gly Asp Ile Gly Arg Val Trp Pro Gly Thr		
	245 250	255
Lys Met Pro Gly Lys Met Gly Lys Cys Gly Glu		
	260 265	

&lt;210&gt; 960

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 960

Pro Arg Val Arg Ala Arg Trp Arg Arg Gly His Phe Phe His Cys Pro  
1 5 10 15  
Ser Glu Gly Thr Leu Ser Ser Val Ser Gly Ala Val Phe Gln Leu Arg  
20 25 30  
Val Val Pro Arg Glu Ser Glu Arg Pro Ser Pro Gly Trp Cys Asp Gly  
35 40 45  
Arg Gly Gly Gly Gln Ala Gly Arg Ala Ala Val His Gln Arg Gly Gly  
50 55 60  
Arg Ala Gly Gln Arg Arg Arg Pro Gly Leu Leu Pro Asp Leu Gly Val  
65 70 75 80  
Ser Ala Val Gly Gly His Gly Arg His Pro Arg Pro His Arg Pro Leu  
85 90 95  
Arg Leu His Leu Leu Pro Ala Arg Leu Arg Pro Ala Leu Pro Ala Pro  
100 105 110  
His Ser Gln Gly Gly Lys Glu Val Glu Gln Ile Phe Gln Ile Thr Glu  
115 120 125  
Thr Ser Leu Tyr Arg Arg Pro His Arg Gly Pro Leu His Leu Arg Pro  
130 135 140  
Val Leu Asp Val Pro Leu Arg His Gly Ala Arg Leu Leu Lys Trp Gly  
145 150 155 160  
Pro Gly Gly Leu Phe  
165

&lt;210&gt; 961

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 961

Thr Ala Thr Thr Glu Val Glu Val Leu Asp Met Xaa Val Leu Pro Leu



1                      5                      10                      15  
 Val Tyr Ile Leu Met Asn Ile Asp Val Asn Lys Lys Gly Lys Lys Gln  
                     20                      25                      30  
 Asn Thr Arg Phe Phe Pro Ile Leu Met Leu Ala Pro Ser Lys Ser Leu  
                     35                      40                      45  
 Pro Thr Arg Met Asn Thr Phe Pro Lys Leu Asn Lys Phe Leu Phe Ile  
                     50                      55                      60  
 Lys Leu Arg Leu Lys Phe Val Gly Leu Gly Ser Phe Leu Lys Pro Arg  
                     65                      70                      75                      80  
 Ala Cys Pro Leu Pro Thr Pro Pro Ser Phe Ala Pro Lys  
                     85                      90

<210> 962  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Glu Pro Lys Ala Lys Pro His Arg Ser Arg Gly Ser Gly Thr Arg Ala  
   1                      5                      10                      15  
 Val Arg Arg Arg Ser Cys Leu Gln Ser Ala Ala Glu Ala Ala His Gly  
                     20                      25                      30  
 Pro Asp Thr Pro Ala Ala Arg Ala Leu Gln Ser Leu Gly His Pro Val  
                     35                      40                      45  
 Val Gly Asp Leu Thr Tyr Gly Glu Val Ser Gly Arg Glu Asp Arg Pro  
                     50                      55                      60  
 Phe Arg Met Met Leu His Ala Phe Tyr Leu Arg Ile Pro Thr Asp Thr  
                     65                      70                      75                      80  
 Glu Cys Val Glu Val Cys Thr Pro Asp Pro Phe Leu Pro Ser Leu Asp  
                     85                      90                      95  
 Ala Cys Trp Ser Pro His Thr Leu Leu Gln Ser Leu Asp Gln Leu Val  
                     100                      105                      110  
 Gln Ala Leu Arg Ala Thr Pro Asp Pro Asp Pro Glu Asp Arg Gly Pro  
                     115                      120                      125  
 Arg Pro Gly Ser Pro Ser Ala Leu Leu Pro Gly Pro Gly Arg Pro Pro  
                     130                      135                      140

Pro Pro Pro Thr Lys Pro Pro Glu Thr Glu Ala Gln Arg Gly Pro Cys  
 145 150 155 160

Leu Gln Trp Leu Ser Glu Trp Thr Leu Glu Pro Asp Ser  
 165 170

<210> 963

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963

Ser Ser Arg Gly Glu Pro Arg Ala Ala Leu Leu Cys Lys Arg Ser Asp  
 1 5 10 15

Val Leu Leu Glu Pro Phe Arg Arg Gly Val Met Glu Lys Leu Gln Leu  
 20 25 30

Gly Pro Glu Ile Leu Gln Arg Glu Asn Pro Arg Leu Ile Tyr Xaa Xaa  
 35 40 45

Leu Ser Gly Phe Gly Gln Ser Gly Lys Leu Leu Pro Val Ser Trp Pro  
 50 55 60

Arg Tyr Gln Leu Phe Gly Phe Cys Ser Gly Gly Arg Xaa Gln His Ile  
 65 70 75 80

<210> 964

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 964

Ala Glu Ala Leu Gly Ser Pro Cys Phe Pro Gln Asp Leu Leu Leu Ala  
 1 5 10 15

Asn Arg Ser Ser Arg Gln Leu Leu Gln Cys Val Ser His Pro Ala Asn  
 20 25 30

Arg Ser Val Cys Ile Ser Val Lys Glu Asn Ser Leu Val Pro Pro Gly  
 35 40 45

Ser Ala Trp Lys Leu Asp Ala Asn Phe Tyr Ile Ala Trp Gln Thr Asp  
 50 55 60

Gln Gln Cys Gln Ala Leu Ile Cys Ile Leu His Tyr Pro Phe Thr Trp  
 65 70 75 80

Phe Leu Ala Leu Asn Gly Leu Gln Pro  
 85

&lt;210&gt; 965

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (218)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 965

Gly Arg Ala Ser Glu Arg Ala Ser Arg Gln Gln Ala Ala Gly Gly Arg  
 1 5 10 15

Ala Asp Gly Thr Glu Gly Gly Ser Glu Arg Ala Val Ser Lys Pro Ala  
 20 25 30

Arg Ala Val Gly Ser Arg Gly Gln Pro Arg Phe Leu Arg Ser Leu Arg  
 35 40 45

Pro Pro Pro Trp Ser Pro Gln Arg Leu Arg Cys Pro Glu Asp Arg Thr  
 50 55 60

Arg Pro Gly Pro Ala Met Ala Ser Leu Leu Lys Val Asp Gln Glu Val  
 65 70 75 80

Lys Leu Lys Val Asp Ser Phe Arg Glu Arg Ile Thr Ser Glu Ala Glu  
85 90 95

Asp Leu Val Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser  
100 105 110

Phe Leu Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His  
115 120 125

Ser Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser  
130 135 140

His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp Glu  
145 150 155 160

Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro Asn Gly  
165 170 175

Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu Lys Val Lys  
180 185 190

Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr Val Lys Met Trp  
195 200 205

Val Gln Leu Leu Ile Pro Arg Ile Glu Xaa Gly Asn Asn Phe Gly Val  
210 215 220

Ser Ile Gln Glu Glu Thr Val Ala Glu Leu Arg Thr Val Glu Ser Glu  
225 230 235 240

Ala Ala Ser Tyr Leu Asp Gln Ile Ser Arg Tyr Tyr Ile Thr Arg Ala  
245 250 255

Lys Leu Val Ser Lys Ile Ala Lys Tyr Pro His Val Glu Asp Tyr Arg  
260 265 270

Arg Thr Val Thr Glu Ile Asp Glu Lys Glu Tyr Ile Ser Leu Arg Leu  
275 280 285

Ile Ile Ser Glu Leu Arg Asn Gln Tyr Val Thr Leu His Asp Met Ile  
290 295 300

Leu Lys Asn Ile Glu Lys Ile Lys Arg Pro Arg Ser Ser Asn Ala Glu  
305 310 315 320

Thr Leu Tyr

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (300)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 966

Val	Ser	Pro	Gln	Lys	Ala	Ala	Ser	Leu	Val	Arg	Ile	Arg	Trp	Arg	His
1				5					10					15	

Val	Arg	Pro	Ser	Pro	Pro	Ser	Ala	Ser	Arg	Leu	Arg	Arg	Leu	Pro	Pro
		20						25					30		

Arg	His	Leu	Thr	Val	Ala	Xaa	Arg	Pro	Arg	Arg	Glu	Gly	Val	Gly	Thr
		35					40					45			

Gly	Ser	Arg	Ala	Val	Leu	Cys	Ile	Leu	Ala	Thr	Cys	Gly	Ser	Lys	Met
	50					55					60				

Ser	Asp	Ile	Gly	Asp	Trp	Phe	Arg	Ser	Ile	Pro	Ala	Ile	Thr	Arg	Tyr
65					70					75					80

Trp	Phe	Ala	Ala	Thr	Val	Ala	Val	Pro	Leu	Val	Gly	Lys	Leu	Gly	Leu
				85					90					95	

Ile	Ser	Pro	Ala	Tyr	Leu	Phe	Leu	Trp	Pro	Glu	Ala	Phe	Leu	Tyr	Arg
		100						105					110		

Phe	Gln	Ile	Trp	Arg	Pro	Ile	Thr	Ala	Thr	Phe	Tyr	Phe	Pro	Val	Gly
		115					120					125			

Pro	Gly	Thr	Gly	Phe	Leu	Tyr	Leu	Val	Asn	Leu	Tyr	Phe	Leu	Tyr	Gln
	130					135					140				

Tyr	Ser	Thr	Arg	Leu	Glu	Thr	Gly	Ala	Phe	Asp	Gly	Arg	Pro	Ala	Asp
145					150					155					160

Tyr	Leu	Phe	Met	Leu	Leu	Phe	Asn	Trp	Ile	Cys	Ile	Val	Ile	Thr	Gly
			165						170					175	

Leu	Ala	Met	Asp	Met	Gln	Leu	Leu	Met	Ile	Pro	Leu	Ile	Met	Ser	Val
		180						185						190	

Leu Tyr Val Trp Ala Gln Leu Asn Arg Asp Met Ile Val Ser Phe Trp  
 195 200 205  
 Phe Gly Thr Arg Phe Lys Ala Cys Tyr Leu Pro Trp Val Ile Leu Gly  
 210 215 220  
 Phe Asn Tyr Ile Ile Gly Gly Ser Val Ile Asn Glu Leu Ile Gly Asn  
 225 230 235 240  
 Leu Val Gly His Leu Tyr Phe Phe Leu Met Phe Arg Tyr Pro Met Asp  
 245 250 255  
 Leu Gly Gly Arg Asn Phe Leu Ser Thr Pro Gln Phe Leu Tyr Arg Trp  
 260 265 270  
 Leu Pro Ser Arg Arg Gly Gly Val Ser Gly Phe Gly Val Pro Pro Ala  
 275 280 285  
 Ser Met Arg Arg Ala Ala Asp Gln Asn Gly Gly Xaa Gly Arg His Asn  
 290 295 300  
 Trp Gly Gln Gly Phe Arg Leu Gly Asp Gln  
 305 310

&lt;210&gt; 967

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (163)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 967

Thr Ser Ser Asp Thr Leu Thr Val Leu Ser Arg Ala Arg Leu Gly Ser  
 1 5 10 15  
 Leu Leu Trp Gln Asn Leu Gly Ser Gln Glu Val Leu Val Pro Gly Asn  
 20 25 30  
 Ser Cys Phe Ser Gly Ala Gly Leu Tyr Ser Leu Gln Pro Leu Ala Leu  
 35 40 45

Pro Ser Trp Asn Gln Gly Gln Arg Leu Ser Pro Thr Leu Val Ser Ile  
 50 55 60  
 Phe Gln Lys Thr Gly Asn Ala Val Arg Ala Ile Gly Arg Leu Ser Ser  
 65 70 75 80  
 Met Ala Met Ile Ser Gly Leu Ser Gly Arg Lys Ser Ser Thr Gly Ser  
 85 90 95  
 Pro Thr Ser Pro Leu Asn Ala Glu Lys Leu Glu Ser Glu Glu Asp Val  
 100 105 110  
 Ser Gln Ala Phe Leu Glu Ala Val Ala Glu Glu Lys Pro His Val Lys  
 115 120 125  
 Pro Tyr Phe Ser Lys Thr Ile Arg Asp Leu Glu Val Val Glu Gly Ser  
 130 135 140  
 Ala Ala Arg Phe Asp Cys Lys Ile Glu Gly Tyr Pro Asp Pro Glu Val  
 145 150 155 160  
 Val Trp Xaa Gln Arg Trp Thr Ser Ser Ile Arg Glu Ser Arg Xaa Phe  
 165 170 175  
 Pro Asp Arg Leu Arg  
 180

&lt;210&gt; 968

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 968

His Gly Ala Gly Glu Ser Glu Pro Ser Ser Arg Val Pro Arg Arg Ala  
 1 5 10 15  
 Ala Ser Pro Gly His Val Pro Arg Leu Arg Gly Thr Arg Pro Glu Leu  
 20 25 30  
 Arg Glu Arg Arg Arg Val Arg Arg Pro Arg Ala Pro Pro Ala Ala Ala  
 35 40 45  
 Gln Ala Ala Gln Gln Lys Phe His Leu Val Pro Ser Ile Asn Thr Met  
 50 55 60  
 Ser Gly Ser Gln Glu Leu Gln Trp Met Val Gln Pro His Phe Leu Gly  
 65 70 75 80  
 Pro Ser Ser Tyr Pro Arg Pro Leu Thr Tyr Pro Gln Tyr Ser Pro Pro

	85		90		95
Gln Pro Arg	Pro Gly Val Ile Arg	Ala Leu Gly Pro Pro	Pro Gly Val		
	100	105	110		
Arg Arg Arg	Pro Cys Glu Gln Ile Ser	Pro Glu Glu Glu Glu Arg Arg			
	115	120	125		
Arg Val Arg	Arg Glu Arg Asn Lys Leu Ala Ala	Lys Cys Arg Asn			
	130	135	140		
Arg Arg Lys	Glu Leu Thr Asp Phe Leu Gln Ala Glu Thr	Asp Lys Leu			
	145	150	155	160	
Glu Asp Glu	Lys Ser Gly Leu Gln Arg Glu Ile Glu Glu	Leu Gln Lys			
	165	170	175		
Gln Lys Glu	Arg Leu Glu Leu Val Leu Glu Ala His Arg	Pro Ile Cys			
	180	185	190		
Lys Ile Pro	Glu Gly Ala Lys Glu Gly Asp Thr Gly Ser Thr Ser Gly				
	195	200	205		
Thr Ser Ser	Pro Pro Ala Pro Cys Arg Pro Val Pro Cys Ile Ser Leu				
	210	215	220		
Ser Pro Gly	Pro Val Leu Glu Pro Glu Ala Leu His Thr Pro Thr Leu				
	225	230	235	240	
Met Thr Thr	Pro Ser Leu Thr Pro Phe Thr Pro Ser Leu Val Phe Thr				
	245	250	255		
Tyr Pro Ser	Thr Pro Glu Pro Cys Ala Ser Ala His Arg Lys Ser Ser				
	260	265	270		
Ser Ser Ser	Gly Asp Pro Ser Ser Asp Pro Leu Gly Ser Pro Thr Leu				
	275	280	285		
Leu Ala Leu					
	290				

&lt;210&gt; 969

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 969

Glu	Glu	Glu	Lys	Lys	Asp	Ser	Gly	Val	Ala	Ser	Thr	Glu	Asp	Ser	Ser
1				5					10					15	

Ser	Ser	His	Ile	Thr	Ala	Ala	Ala	Ile	Ala	Ala	Lys	Lys	His	Pro	Phe
		20						25					30		

Tyr	Thr	Xaa	Pro	Ala	Val	Val	Met	Ala	His	Gly	Glu	Gln	Pro	Ile	Pro
		35					40					45			

Gly	Leu	Ile	Asn	Tyr	Ser	His	His	Ser	Thr	Asp	Glu	Arg	Xaa	Pro	Asp
	50					55					60				

Ser	Ile	Ile	Ser	Arg	Gly	Val	Gln	Val	Leu	Pro	Arg	Asp	Thr	Ala	Ser
65					70					75					80

Leu	Ser	Thr	Thr	Pro	Ser	Glu	Ser	Pro	Arg	Ala	Gln	Ala	Thr	Ser	Arg
				85					90					95	

Leu	Ser	Thr	Ala	Ser	Cys	Pro	Thr	Pro	Lys	Val	Gln	Ser	Arg	Cys	Ser
			100					105						110	

Ser	Lys	Glu	Asn	Ile	Leu	Arg	Ala	Xaa	His	Ser	Ala	Val	Asp	Ile	Thr
			115				120						125		

Lys Val Ala Arg Arg His Arg Met Xaa Pro Phe Pro Leu Thr Ser Met  
 130 135 140  
 Asp Lys Ala Phe Ile Thr Val Leu Glu Met Thr Pro Val Leu Gly Thr  
 145 150 155 160  
 Glu Ile Ile Asn Tyr Arg Asp Gly Met Gly Arg Val Leu Ala Gln Asp  
 165 170 175  
 Val Tyr Ala Lys Asp Asn Leu Pro Pro Phe Pro Ala Ser Val Lys Asp  
 180 185 190  
 Gly Tyr Ala Val Arg Ala Ala Asp Gly Pro Gly Asp Arg Phe Ile Ile  
 195 200 205  
 Gly Glu Ser Gln Ala Gly Glu Gln Pro Thr Gln Thr Val Met Pro Gly  
 210 215 220  
 Gln Val Met Arg Val Thr Thr Gly Ala Pro Ile Pro Cys Gly Ala Asp  
 225 230 235 240  
 Ala Val Val Gln Val Glu Asp Thr Glu Leu Ile Arg Glu Ser Asp Asp  
 245 250 255  
 Gly Thr Glu Glu Leu Glu Val Arg Ile Leu Val Gln Ala Arg Pro Gly  
 260 265 270  
 Gln Asp Ile Arg Pro Ile Gly His Asp Ile Lys Arg Gly Glu Cys Val  
 275 280 285  
 Leu Ala Lys Gly Thr His Met Gly Pro Ser Glu Ile Gly Leu Leu Ala  
 290 295 300  
 Thr Val Gly Val Thr Glu Val Xaa Xaa  
 305 310

&lt;210&gt; 970

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 970

His Met Lys Lys Gln Leu Leu Val Pro Asp Tyr Gly His Phe His Val

1                      5                      10                      15  
 Xaa Glu Phe Leu Lys Leu Ser Leu Leu Arg Met Val Leu Leu Pro Ala  
                     20                      25                      30  
 Asp Ser Tyr Leu Phe Val Phe Ser Ser Phe  
                     35                      40

<210> 971  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 971  
 Gln Lys Asp Arg Glu Ile Arg Ile Phe Cys Ala Glu Ser Pro Lys Phe  
   1                      5                      10                      15  
 Pro Pro Glu Cys Asn Leu Gln Leu Pro Tyr Leu Leu Ser His Met Pro  
                     20                      25                      30  
 Ser Asn Met Leu Asp Trp Leu Ile His Arg Pro Thr Gln Asn Thr Asn  
                     35                      40                      45  
 Val Thr Cys Ser Cys Ser Leu Val Ala Ile Cys Leu Phe Ser Met Tyr  
                     50                      55                      60  
 Pro Ala Trp  
   65

<210> 972  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 972  
 Ile Val Phe Phe Phe Ser Leu Phe Tyr Lys Cys Gln Phe Asn Ser Arg  
   1                      5                      10                      15  
 Ala Leu Ala Gln Tyr Phe Leu Met Ile Phe Ser Pro Arg Lys Arg Arg  
                     20                      25                      30  
 Lys Ser Leu Leu Val Thr Gln Leu Arg Cys Gln Thr Ser Ser Glu Thr  
                     35                      40                      45  
 Cys Thr Val Ala Ala Tyr  
                     50

<210> 973

<211> 102

<212> PRT

<213> Homo sapiens

<400> 973

Val Val Leu Phe Glu His Lys Leu His Phe Tyr Phe Leu Met Gln Arg  
1 5 10 15  
Met Asn Lys Leu Asn Thr Cys Phe Glu Asp Arg Ser Arg Cys Ser Val  
20 25 30  
Trp His His Val Ile Ile Cys Leu Phe Tyr Asn Ile His Val Ser Leu  
35 40 45  
Arg Asn His Gly Arg Asp Val Arg Ala Glu Tyr Thr Gln Gln Met Leu  
50 55 60  
Lys Glu Lys Glu Gly Ser Val Leu Gln Lys Lys Lys Lys Arg Thr Asn  
65 70 75 80  
Arg Ile Leu Thr Leu Leu Thr Phe Pro Asn Phe Pro Met Leu Leu Val  
85 90 95  
Asn Ile Ile Ile Val Ser  
100

<210> 974

<211> 365

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (316)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (335)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (347)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (363)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 974

Gly Met Lys Thr Asn Gly Gly Arg Cys Arg Val Arg Ala Leu Cys Trp  
 1 5 10 15

Ser Arg Arg Glu Trp Arg Gly Ala Gly Met Ala Gln Lys Lys Tyr Leu  
 20 25 30

Gln Ala Lys Leu Thr Gln Phe Leu Arg Glu Asp Arg Ile Gln Leu Trp  
 35 40 45

Lys Pro Pro Tyr Thr Asp Glu Asn Lys Lys Val Gly Leu Ala Leu Lys  
 50 55 60

Asp Leu Ala Lys Gln Tyr Ser Asp Arg Leu Glu Cys Cys Glu Asn Glu  
 65 70 75 80

Val Glu Lys Val Ile Glu Glu Ile Arg Cys Lys Ala Ile Glu Arg Gly  
 85 90 95

Thr Gly Asn Asp Asn Tyr Arg Thr Thr Gly Ile Ala Thr Ile Glu Val  
 100 105 110

Phe Leu Pro Pro Arg Leu Lys Lys Asp Arg Lys Asn Leu Leu Glu Thr  
 115 120 125

Arg Leu His Ile Thr Gly Arg Glu Leu Arg Ser Lys Ile Ala Glu Thr  
 130 135 140

Phe Gly Leu Gln Glu Asn Tyr Ile Lys Ile Val Ile Asn Lys Lys Gln  
 145 150 155 160

Leu Gln Leu Gly Lys Thr Leu Glu Glu Gln Gly Val Ala His Asn Val  
 165 170 175

Lys Ala Met Val Leu Glu Leu Lys Gln Ser Glu Glu Asp Ala Arg Lys  
 180 185 190

Asn Phe Gln Leu Glu Glu Glu Glu Gln Asn Glu Ala Lys Leu Lys Glu  
 195 200 205  
 Lys Gln Ile Gln Arg Thr Lys Arg Gly Leu Glu Ile Leu Ala Lys Arg  
 210 215 220  
 Ala Ala Glu Thr Val Val Asp Pro Glu Met Thr Pro Tyr Leu Asp Ile  
 225 230 235 240  
 Ala Asn Gln Thr Gly Arg Ser Ile Arg Ile Pro Pro Ser Glu Arg Lys  
 245 250 255  
 Ala Leu Met Leu Ala Met Gly Tyr His Glu Lys Gly Arg Ala Phe Leu  
 260 265 270  
 Lys Arg Lys Glu Tyr Gly Ile Ala Leu Pro Cys Leu Leu Asp Ala Asp  
 275 280 285  
 Lys Tyr Phe Cys Glu Cys Cys Arg Xaa Leu Leu Asp Thr Val Asp Asn  
 290 295 300  
 Tyr Ala Val Leu Gln Leu Asp Ile Val Trp Cys Xaa Phe Arg Leu Glu  
 305 310 315 320  
 Xaa Leu Glu Cys Leu Asp Asp Ala Glu Lys Lys Leu Asn Leu Xaa Gln  
 325 330 335  
 Lys Cys Phe Lys Asn Cys Tyr Gly Glu Asn Xaa Gln Arg Leu Val His  
 340 345 350  
 Ile Lys Val Cys Ser Trp Glu Phe Ile Leu Xaa Ala Arg  
 355 360 365

&lt;210&gt; 975

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 975

Arg Gly Cys Lys Arg Glu Gly Leu Ala Met Ser Ser Leu Ile Arg Arg  
 1 5 10 15  
 Val Ile Ser Thr Ala Lys Ala Pro Gly Ala Ile Gly Pro Tyr Ser Gln  
 20 25 30  
 Ala Val Leu Val Asp Arg Thr Ile Tyr Ile Ser Gly Gln Ile Gly Met  
 35 40 45

Asp Pro Ser Ser Gly Gln Leu Val Ser Gly Gly Val Ala Glu Glu Ala  
50 55 60

Lys Gln Ala Leu Lys Asn Met Gly Glu Ile Leu Lys Ala Ala Gly Cys  
65 70 75 80

Asp Phe Thr Asn Val Val Lys Thr Thr Val Leu Leu Ala Asp Ile Asn  
85 90 95

Asp Phe Asn Thr Val Asn Glu Ile Tyr Lys Gln Tyr Phe Lys Ser Asn  
100 105 110

Phe Pro Ala Arg Ala Ala Tyr Gln Val Ala Ala Leu Pro Lys Gly Ser  
115 120 125

Arg Ile Glu Ile Glu Ala Val Ala Ile Gln Gly Pro Leu Thr Thr Ala  
130 135 140

Ser Leu  
145

<210> 976

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

Ser	Ser	Glu	Leu	Leu	Leu	His	Ser	Phe	Leu	Gly	Ser	Val	Ser	Ser	Gln
1				5					10					15	
Asn	His	Arg	Tyr	Pro	Xaa	Xaa	Ser	Gln	Thr	Thr	Ala	Leu	Gly	Glu	Gly
			20					25					30		
Thr	Ile	Arg	Phe	Thr	Xaa	Gly	Phe	His	Thr	Leu	Met	Leu	Leu	Ala	Phe
		35					40					45			
Asn	Leu	Thr	Thr	Leu	Asp	Cys	Gln	Val	Phe	Thr	Asp	Xaa	Trp	Thr	Trp
		50				55					60				
Ile	Gln	Asp	Trp	Glu	Cys	Xaa	Gly	Met	Val	Trp	Gln	Gln	Cys	Leu	Leu
65					70					75				80	

<210> 977

<211> 59

<212> PRT

<213> Homo sapiens

<400> 977

Thr	Asp	Asp	Glu	Phe	Ser	Gln	Met	Thr	Leu	Arg	Asn	Cys	Phe	Thr	Lys
1				5					10					15	
Asn	Lys	Val	Ile	Tyr	Leu	Leu	Trp	Glu	Glu	Leu	Pro	Ser	Phe	Cys	Phe
			20					25					30		
Ser	Ser	Leu	Pro	Pro	Phe	Pro	Cys	Gly	Cys	Arg	Ala	Arg	Ser	Val	Arg
		35					40					45			
Ser	Trp	Phe	Cys	Pro	Ala	Met	Ile	Arg	Glu	Ser					
	50					55									

<210> 978

<211> 203

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (188)



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Leu	Trp	Glu	Leu	Lys	Lys	Leu	Ser	Val	His	Phe	His	Pro	Ser	Val	Ala
1				5					10					15	
Leu	Phe	Ala	Lys	Thr	Ile	Leu	Gln	Gly	Asn	Tyr	Ile	Gln	Tyr	Ser	Gly
			20					25					30		
Asp	Pro	Leu	Gln	Asp	Phe	Thr	Leu	Met	Arg	Phe	Leu	Asp	Arg	Phe	Val
		35					40					45			
Tyr	Arg	Asn	Pro	Lys	Pro	His	Lys	Gly	Lys	Glu	Asn	Thr	Asp	Ser	Val
	50					55					60				
Val	Met	Gln	Pro	Lys	Arg	Lys	His	Phe	Ile	Lys	Asp	Ile	Arg	His	Leu
65					70					75					80
Pro	Val	Asn	Ser	Lys	Glu	Phe	Leu	Ala	Lys	Glu	Glu	Ser	Gln	Ile	Pro
			85						90						95
Val	Asp	Glu	Val	Phe	Phe	His	Arg	Tyr	Tyr	Lys	Lys	Val	Ala	Val	Lys
		100						105					110		
Glu	Lys	Gln	Lys	Arg	Asp	Ala	Asp	Glu	Glu	Ser	Ile	Glu	Asp	Val	Asp
	115						120					125			
Asp	Glu	Glu	Phe	Glu	Glu	Leu	Ile	Asp	Thr	Phe	Glu	Asp	Asp	Asn	Cys
	130					135					140				
Phe	Ser	Ser	Gly	Lys	Asp	Asp	Met	Asp	Phe	Ala	Gly	Asn	Val	Lys	Lys
145					150					155					160
Arg	Thr	Lys	Gly	Ala	Lys	Asp	Asn	Thr	Leu	Asp	Glu	Asp	Ser	Glu	Gly
			165						170					175	
Ser	Asp	Asp	Glu	Leu	Gly	Asn	Leu	Asp	Asp	Asp	Xaa	Ser	Phe	Phe	Arg
		180						185					190		
Glu	Val	Trp	Met	Met	Glu	Glu	Phe	Ala	Gly	Ser					
	195						200								

<210> 979

<211> 141

<212> PRT

<213> Homo sapiens

<400> 979

Ala Ala Gly Phe Gly Asp Phe Cys Leu Ile Ala Met Ser Gly Arg Gly

1                      5                      10                      15  
 Lys Gln Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg  
                     20                      25                      30  
 Ala Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys  
                     35                      40                      45  
 Gly Asn Tyr Ala Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Leu Ala  
                     50                      55                      60  
 Ala Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn  
                     65                      70                      75                      80  
 Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln  
                                     85                      90                      95  
 Leu Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Arg Val  
                     100                      105                      110  
 Thr Ile Ala Gln Gly Gly Val Leu Pro Asn Ile Gln Ala Val Leu Leu  
                     115                      120                      125  
 Pro Lys Lys Thr Glu Ser His His Lys Ala Lys Gly Lys  
                     130                      135                      140

&lt;210&gt; 980

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 980

Gly Glu Leu Ser Phe Phe Gly Arg His Pro Asp Val Pro Arg Glu Ala  
 1                      5                      10                      15  
 Ala Gly Ala His Gly Asp Arg His Ala Ser Pro Trp Ala Phe Phe Leu  
                     20                      25                      30  
 Glu Arg Xaa Lys Ala Pro Arg Leu Thr Thr Arg Ser His Arg Leu Leu  
                     35                      40                      45  
 Ser Asp Val Phe Ala Ala Ser Trp Thr Pro His Arg Met Leu Thr Thr  
                     50                      55                      60

Lys Thr Leu Gln Pro Trp Val Ala Arg Leu Asp Glu Met Glu Arg Gly  
 65 70 75 80

Leu Phe Gln Thr Gly Gln Lys Gly Leu Asn Asp Phe Gln Cys Trp Glu  
 85 90 95

Lys Gly Gln Ala Ser Gln Ile Thr Ala Ser Asn Leu Val Gln Asn  
 100 105 110

<210> 981

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 981

Trp Arg Met Gly Phe Ser Arg Val Leu Cys Phe Thr Asn Ser Arg Glu  
 1 5 10 15

Asn Ser His Arg Leu Phe Leu Leu Val Gln Ala Phe Gly Gly Val Asp  
 20 25 30

Val Ala Glu Phe Ser Ser Arg Tyr Gly Pro Gly Gln Arg Arg Met Ile  
 35 40 45

Leu Lys Gln Phe Glu Gln Gly Lys Ile Gln Leu Leu Ile Ser Thr Asp  
 50 55 60

Ala Thr Ala Arg Gly Xaa Asp Val Gln Gly Val Glu Leu Val Val Asn  
 65 70 75 80

Tyr Asp Ala Pro Gln Tyr Leu Arg Thr Tyr Val His Arg Val Gly Arg  
 85 90 95

Thr Ala Arg Ala Gly Lys Thr Gly Gln Ala Phe Thr Leu Leu Leu Lys  
 100 105 110

Val Gln Glu Arg Arg Phe Leu Arg Met Leu Thr Glu Ala Gly Ala Pro  
 115 120 125

Glu Leu Gln Arg His Glu Leu Ser Ser Lys Leu Leu Gln Pro Leu Val  
 130 135 140

Pro Arg Tyr Glu Glu Ala Leu Ser Gln Leu Glu Glu Ser Val Lys Glu  
 145 150 155 160

Glu Xaa Lys Gln Arg Ala Ala  
 165

<210> 982

<211> 108

<212> PRT

<213> Homo sapiens

<400> 982

Ala Asn Glu Pro Gln Phe Leu Ala Val Tyr Lys Lys Ser Leu Asn Ala  
 1 5 10 15

Asn Glu Glu Phe Lys Gly Leu Phe Lys Glu Met Lys Gly Phe Pro Asn  
 20 25 30

Arg Met Ile Tyr Ser Glu Glu Thr Asn Asn Gly Ile Ser Glu Thr His  
 35 40 45

Asn Leu Lys Pro Asn Leu Glu Asn Met Leu Cys Thr Lys Thr Thr Ala  
 50 55 60

Ser Ala Ser Ser Leu Ile Leu Thr Phe Phe Asn Arg Tyr Leu Leu Asn  
 65 70 75 80

Cys Pro Val Lys Arg Cys His Asn Ala Gln Tyr Cys Lys Gln Gln Val  
 85 90 95

Cys Ile His Glu Ala Phe Ile His Ser Gly Val Tyr  
 100 105

<210> 983

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 983

Phe Ser Leu Ser Leu Ser Met Thr Pro Gln Leu Leu Leu Ala Leu Val  
 1 5 10 15  
 Leu Trp Ala Ser Cys Pro Pro Cys Ser Gly Arg Lys Gly Pro Pro Ala  
 20 25 30  
 Ala Leu Thr Leu Pro Arg Val Gln Cys Arg Ala Ser Arg Tyr Pro Ile  
 35 40 45  
 Ala Val Asp Cys Ser Trp Thr Leu Pro Pro Ala Pro Asn Ser Thr Ser  
 50 55 60  
 Pro Val Ser Phe Ile Ala Thr Tyr Arg Leu Gly Met Ala Ala Arg Gly  
 65 70 75 80  
 His Ser Trp Pro Cys Leu Gln Gln Thr Pro Thr Ser Thr Ser Cys Thr  
 85 90 95  
 Ile Thr Asp Val Gln Leu Phe Ser Met Ala Pro Tyr Val Leu Asn Val  
 100 105 110  
 Thr Ala Val His Pro Trp Gly Ser Ser Ser Ser Phe Val Pro Phe Ile  
 115 120 125  
 Thr Glu His Ile Ile Lys Pro Asp Pro Pro Glu Gly Val Arg Leu Ser  
 130 135 140  
 Pro Leu Ala Glu Arg Xaa  
 145 150

&lt;210&gt; 984

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 984

Arg Leu Cys Trp Val Lys Thr Leu Gln His Leu Leu Leu Arg Ser Thr  
 1 5 10 15  
 His Lys Asp Gln Val Gln His Arg Gly Leu Gly Thr Ser Leu Ala Ser  
 20 25 30  
 Gly Pro His Leu Thr Val Arg Gln Gln Leu Pro Ser Pro Ala Met Cys  
 35 40 45  
 Leu Leu Ser Gly Ser Ser Cys Leu Lys Leu Thr Ser Thr Phe Phe Pro  
 50 55 60  
 Asp Gly Gln Val Ala Glu Gly Pro Ala Ile Ser Val Ala Cys Cys His

[illegible]

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<210> 985
<211> 40
<212> PRT
<213> Homo sapiens
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<400> 985
Arg Trp Gly Cys Pro Gly Trp Ser Gln Thr Pro Glu Leu Lys Gln Cys
 1             5             10             15
Ala Arg Leu Gly Phe Pro Lys Cys Trp Asp Tyr Arg Arg Lys Pro Leu
 20             25             30
His Ala Ala Tyr Pro Leu Pro Phe
 35             40

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<210> 986
<211> 63
<212> PRT
<213> Homo sapiens
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<400> 986
Val Phe Gly Ser Phe Ser Cys Ile His Ser Pro Ser Cys His Leu Val
  1             5             10             15
Lys Lys Val Pro Trp Phe Pro Phe Thr Phe Asn His Asp Cys Lys Phe
      20             25             30
Pro Glu Ala Pro Pro Ala Met Gly Asp Cys Glu Ser Ile Lys Pro Leu
      35             40             45

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Ser Phe Ile Asn Tyr Pro Val Ser Gly Ser Phe Leu Ile Ala Val  
 50 55 60

<210> 987

<211> 90

<212> PRT

<213> Homo sapiens

<400> 987

His His Arg Ile Asn Cys Val His Leu Tyr His Cys Phe Thr Ser Leu  
 1 5 10 15

Trp Trp Ile Tyr Met Ala Lys Leu Cys Glu Glu Ile Gly Lys Lys Lys  
 20 25 30

Leu Pro Leu Thr Lys Asp Met Arg Glu Gln Gly Val Lys Ser Asn Pro  
 35 40 45

Cys Asp Ser Ser Leu Ser His Thr Asp Arg Trp Tyr Leu Pro Val Ser  
 50 55 60

Ser Thr Leu Phe Ser Leu Phe Lys Ile Leu Phe His Ala Ser Arg Phe  
 65 70 75 80

Ile Phe Val Leu Ser Thr Ser Leu Phe Leu  
 85 90

<210> 988

<211> 50

<212> PRT

<213> Homo sapiens

<400> 988

Ala Gln Glu Glu Lys Lys Pro Tyr Leu Cys Ser Arg Phe Cys Lys Gly  
 1 5 10 15

Glu Ile Ser Thr Glu Arg Asn His Cys Tyr Thr Ser Ala Lys Thr Gln  
 20 25 30

Gly Leu Gly Asp Leu Phe Leu Phe Ile Cys Phe Gly Tyr Leu Ala Ser  
 35 40 45

Phe Ser  
 50

&lt;210&gt; 989

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

Arg Met Lys Arg Ser Arg Arg Trp Ser Arg Tyr Lys Ala Leu Asn Ala  
 1 5 10 15

Gly Arg Thr Ser Lys Arg Ile His Lys Gly Leu Val Val Arg Lys Gly  
 20 25 30

Trp Leu Gly Lys Leu Pro Ser Leu Pro Leu Arg Trp Arg Ala Arg Gly  
 35 40 45

Val Met Thr Leu Met Phe Ile Leu Leu Ala Ala Met Leu Trp Phe Val  
 50 55 60

Ala Ala Pro Val Val Thr Tyr Ile Leu Cys Ala Leu Val Val Leu Leu  
 65 70 75 80

Ala Ala Pro Val Leu Asn Gly Arg Leu Tyr Ala Arg  
 85 90

&lt;210&gt; 990

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 990

Ser Gly Leu Ile Pro Phe Pro Phe Gln Arg Ile Ala Lys Lys Lys Leu  
 1 5 10 15

Thr Val Glu Ala Gly Cys Ser Glu Val Gly Cys Gly Val Gly Gly Thr  
 20 25 30

Xaa Gly Xaa Ala Leu Trp Ala Gly Ala Gly Gly Phe Glu Gly Leu Ser  
 35 40 45



Ser Thr Arg Ala Gln Arg Ser Cys Gln Trp Pro Val Ala Leu Pro Pro  
 50 55 60

Phe Pro Glu Arg Gly Ser Arg Gly His Pro Gly Arg Leu Gly Pro Gly  
 65 70 75 80

Pro Pro Ser Ala Leu Ala Ser  
 85

<210> 991  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 991  
 Phe Ala Thr Asp Arg Phe Phe Lys Cys Trp His Asn Ala Gln Ser Ser  
 1 5 10 15

Met Arg Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile  
 20 25 30

Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys Xaa Ala Val  
 35 40 45

Thr Val Ser Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile  
 50 55 60

Ser Val Asp Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn  
 65 70 75 80

Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser  
 85 90 95

Arg Ala Asn Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Gln Gln Leu  
 100 105 110

Thr Lys Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala Ala Lys Ile  
 115 120 125

Ala Lys Asp Lys Thr Gln Glu Lys Ile Glu Thr Ser Ser Asn His Ser  
 130 135 140

Gln Ala Ser Ser Val Asn Xaa Thr Asp Asp Glu Lys Ala Ser His Ala  
 145 150 155 160

Gly Pro Ala Asn Thr His Leu Lys Ser Glu Asn Asp Lys Leu Lys Ile  
 165 170 175

Ala Leu Thr Gln Ser Ala Pro Thr  
 180

&lt;210&gt; 992

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 992

Pro Cys His Leu Gln His Glu Glu Ser Leu Ser Gly Val Lys Val Asn  
 1 5 10 15

Glu Thr Asn Arg Asp Xaa Arg Pro Gly Glu Ile Leu Val Thr Leu Leu  
 20 25 30

Glu Ser Cys Gln Ser Tyr Thr Gly Val Leu Leu Ile Gln Asn Asn Ser  
 35 40 45

Asn Asn Pro Ser Val Ser Tyr Val Tyr Ala Asn Phe Asn Lys Lys Lys  
 50 55 60

Leu Asp  
 65

&lt;210&gt; 993

&lt;211&gt; 434

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 993

Ser	Gly	Pro	Gly	Val	Gln	Trp	Val	Gln	Pro	Ala	Cys	Xaa	Leu	Arg	Pro
1				5					10					15	

Asp	Arg	Gly	Ala	Pro	Thr	Asp	Gly	Xaa	Gly	Gly	Ala	Leu	Gln	Ala	Glu
		20						25					30		

Thr	Pro	Ser	Ser	Ala	Glu	Ser	Gln	Glu	Phe	Trp	Glu	Val	Lys	Arg	Lys
		35					40					45			

Glu	Lys	Leu	Ile	Thr	Asn	Gly	Thr	Ile	Phe	Cys	Phe	Glu	Met	Glu	Pro
	50					55					60				

Ala	Val	Ser	Glu	Pro	Met	Arg	Asp	Gln	Val	Ala	Arg	Thr	His	Leu	Thr
65					70					75					80

Glu	Asp	Thr	Pro	Lys	Val	Asn	Ala	Asp	Ile	Glu	Lys	Val	Asn	Xaa	Asn
				85					90					95	

Gln	Ala	Xaa	Arg	Cys	Thr	Val	Ile	Gly	Gly	Ser	Gly	Phe	Leu	Gly	Gln
		100						105					110		

His	Met	Val	Glu	Gln	Leu	Leu	Ala	Arg	Gly	Tyr	Ala	Val	Asn	Val	Phe
	115						120					125			

Asp	Ile	Gln	Gln	Gly	Phe	Asp	Asn	Pro	Gln	Val	Arg	Phe	Phe	Leu	Gly
	130					135					140				

Asp	Leu	Cys	Ser	Arg	Gln	Asp	Leu	Tyr	Pro	Ala	Leu	Lys	Gly	Val	Asn
145					150					155					160

Thr	Val	Phe	His	Cys	Ala	Ser	Pro	Pro	Pro	Ser	Ser	Asn	Asn	Lys	Glu
				165					170					175	

Leu	Phe	Tyr	Arg	Val	Asn	Tyr	Ile	Gly	Thr	Lys	Asn	Val	Ile	Glu	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

180	185	190
Cys Lys Glu Ala Gly Val Gln Lys Leu Ile Leu Thr Ser Ser Ala Ser		
195	200	205
Val Ile Phe Glu Gly Val Asp Ile Lys Asn Gly Thr Glu Asp Leu Pro		
210	215	220
Tyr Ala Met Lys Pro Ile Asp Tyr Tyr Thr Glu Thr Lys Ile Leu Gln		
225	230	235
Glu Arg Ala Val Leu Gly Ala Asn Asp Pro Glu Lys Asn Phe Leu Thr		
245	250	255
Thr Ala Ile Arg Pro His Gly Ile Phe Gly Pro Arg Asp Pro Gln Leu		
260	265	270
Val Pro Ile Leu Ile Glu Ala Ala Arg Asn Gly Lys Met Lys Phe Val		
275	280	285
Ile Gly Asn Gly Lys Asn Leu Val Asp Phe Thr Phe Val Glu Asn Val		
290	295	300
Val His Gly His Ile Leu Ala Ala Glu Gln Leu Ser Arg Asp Ser Thr		
305	310	315
Leu Gly Gly Lys Ala Phe His Ile Thr Asn Asp Glu Pro Ile Pro Phe		
325	330	335
Trp Thr Phe Leu Ser Arg Ile Leu Thr Gly Leu Asn Tyr Glu Ala Pro		
340	345	350
Lys Tyr His Ile Pro Tyr Trp Val Ala Tyr Tyr Leu Ala Leu Leu Leu		
355	360	365
Ser Leu Leu Val Met Val Ile Ser Pro Val Ile Gln Leu Gln Pro Thr		
370	375	380
Phe Thr Pro Met Arg Val Ala Leu Ala Gly Thr Phe His Tyr Tyr Ser		
385	390	395
Cys Glu Arg Ala Lys Lys Ala Met Gly Tyr Gln Pro Leu Val Thr Met		
405	410	415
Asp Asp Ala Met Glu Arg Thr Val Gln Ser Phe Arg His Leu Arg Arg		
420	425	430
Val Lys		

<210> 994  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994  
Met Leu His Gly Ile Thr Ser Phe Ile Leu Tyr Lys Ser Ile Met Cys  
1 5 10 15

Xaa Glu Leu Lys Thr Ser Leu Gly Asn Ile Asn Ser Ser  
20 25

<210> 995  
<211> 175  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 995  
Arg Gly Leu Val Arg Gly Ala Met Val Gly Gly Met Gln Glu Arg Glu  
1 5 10 15

Pro Ala Leu Thr Val Lys Leu Arg Leu Phe Xaa Pro Gln Pro Ser Thr  
20 25 30

Pro Ala Gln Thr Gly Ser Trp Ala Leu Phe Cys Leu Ser Gln Pro His  
35 40 45

Ser Lys Pro Xaa Pro Pro Ala Pro Pro Tyr Cys Asn Ser Pro His Ser  
50 55 60

His Thr Arg Ser Pro Leu Pro Pro Thr Tyr Xaa Arg Xaa Phe Ser Pro  
65 70 75 80

Leu Pro Ser Gln Leu Pro Ala Pro Ser Cys Phe Thr Lys Gly Glu Val  
85 90 95

Pro Gly His Leu Arg Val Ser Leu Cys Gly Ala Gln Asn Leu Gln Gly  
100 105 110

Pro Leu Ser Met Pro Leu Val Pro Trp Thr Val Ser Leu Val His Leu  
115 120 125

Leu Ser Pro Ser Ile Leu Ser Gln Ser Thr Asp Phe Ser His Ser Ala  
130 135 140

Val Ser Val Gln Pro Tyr Pro Arg Asp Leu Asp Ala Trp Pro Pro Asn  
145 150 155 160

Leu Ala Leu Gly Tyr Pro Asp Ala Asn Gln Thr Pro Pro Ser Ser  
165 170 175

<210> 996

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (173)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (182)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 996

Thr Leu Ser His Gln Val Thr Gln Gln Met Asn Met Leu Ile Gly Val  
 1 5 10 15

Glu Leu Gln Arg Leu Leu Val Cys Gln Val Phe Leu Phe Ile Gln Leu  
 20 25 30

Asp Thr Met His Ala Gln Lys Leu Leu Xaa Lys Met Gly Gly Ser Ala  
 35 40 45

Pro Pro Asp Ser Ser Trp Arg Gly Ser Leu Lys Val Pro Tyr Asn Val  
 50 55 60

Gly Pro Gly Phe Thr Gly Asn Phe Ser Thr Gln Lys Val Lys Met His  
 65 70 75 80

Ile His Ser Thr Asn Glu Val Thr Arg Ile Tyr Asn Val Ile Gly Thr  
 85 90 95

Leu Arg Gly Ala Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His  
 100 105 110

Arg Asp Ser Trp Val Xaa Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala  
 115 120 125

Val Val His Glu Ile Val Arg Ser Phe Gly Thr Leu Lys Lys Glu Gly  
 130 135 140

Trp Arg Pro Arg Arg Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu  
 145 150 155 160

Phe Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Xaa Xaa Ser Arg Leu  
 165 170 175

Leu Gln Glu Arg Gly Xaa Gly Phe Ile Leu Asn Ala Asp Ser Ser Ile  
 180 185 190

Gly Arg Lys Leu His Ser Glu Glu Leu Asp Cys Thr Pro Leu Asp Val  
 195 200 205

Gln Leu Gly Thr Gln Pro Tyr Gln Arg Ala  
 210 215

<210> 997  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 997  
 Gly Arg Arg Gln Pro Thr Pro Xaa Thr Ser Pro Glu Pro Pro Arg Ser  
     1                    5                    10                    15  
 Ser Pro Arg Gln Thr Pro Ala Pro Gly Pro Ala Arg Glu Lys Ser Ala  
             20                    25                    30  
 Gly Lys Arg Gly Pro Asp Arg Gly Ser Pro Glu Tyr Arg Gln Arg Arg  
             35                    40                    45  
 Glu Arg Asn Asn Ile Ala Val Arg Lys Ser Arg Asp Lys Ala Lys Arg  
             50                    55                    60  
 Arg Asn Gln Glu Met Gln Gln Lys Leu Val Glu Leu Ser Ala Glu Asn  
             65                    70                    75                    80  
 Glu Lys Leu His Gln Arg Val Glu Gln Leu Thr Arg Asp Leu Ala Gly  
                     85                    90                    95  
 Leu Arg Gln Phe Phe Lys Gln Leu Pro Ser Pro Pro Phe Leu Pro Ala  
             100                    105                    110  
 Ala Gly Thr Ala Asp Cys Arg  
             115

<210> 998  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>



<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 998

Leu Val Asn Gly Ala Arg Lys Val Thr Gly Gln Arg Thr Gln Met Tyr  
1 5 10 15

Arg Xaa Asp Met Xaa Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile  
20 25 30

Phe Pro Pro Ile Lys Thr Asp Val Ile Thr Met Asp Pro Lys Asp Asn  
35 40 45

Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr  
50 55 60

Ser Ala Tyr Tyr Met Tyr Leu Leu Leu Leu Lys Ser Val Val Tyr  
65 70 75 80

Phe Ala Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys  
85 90 95

Asn Gly Glu Lys Ser  
100

<210> 999

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999

Gly Thr Ser Ala Gly Val Asn Pro Tyr Lys Cys Ser Gln Cys Glu Lys  
1 5 10 15

Ser Phe Ser Gly Lys Leu Arg Leu Leu Val His Gln Arg Met His Thr  
20 25 30

Arg Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Ala Phe Ile Arg  
35 40 45

Asn Ser Gln Leu Ile Val His Gln Arg Thr His Ser Gly Glu Lys Pro  
50 55 60

Tyr Gly Xaa Gln  
65

<210> 1000

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1000

Arg Pro Cys Glu Arg Thr Val Arg Pro Arg His Ser Gly His Ser Gly  
1 5 10 15

Pro Asn Xaa Cys Cys Ser Cys Arg Cys Ser Ser Cys Thr Gly Glu Ala  
20 25 30

Ala Ile Ala Gly Arg Leu Arg Thr Ala Ala Ala Gly Ala Arg Thr Ala  
35 40 45

Gly Ala Ala Leu Arg His Leu Gly Ala Gly Gln Arg Glu Leu Gly Pro  
50 55 60

Arg Leu Glu Glu Thr Lys Trp Glu Val Cys Gln Lys Ser Gly Glu Ile  
65 70 75 80

Ser Leu Leu Lys Gln Gln Leu Lys Glu Ser Gln Ala Glu Leu Val Gln  
85 90 95

Lys Gly Ser Glu Leu Val Ala Leu Arg Val Ala Leu Arg Glu Ala Arg  
100 105 110

Ala Thr Leu Arg Val Ser Glu Gly Arg Ala Arg Gly Leu Gln Glu Ala  
115 120 125

Ala Arg Ala Arg Glu Leu Glu Leu Glu Ala Cys Ser Gln Glu Leu Gln  
130 135 140

Arg His Arg Gln Glu Ala Glu Gln Leu Arg Glu Lys Ala Gly Gln Leu  
145 150 155 160

Asp Ala Glu Ala Ala Gly Leu Arg Glu Pro Pro Val Pro Pro Ala Thr  
165 170 175

Ala Asp Pro Phe Leu Leu Ala Glu Ser Asp Glu Ala Lys Val Gln Arg  
180 185 190

Ala Ala Ala Gly Val Gly Gly Ser Leu Arg Ala Gln Val Glu Arg Leu  
 195 200 205  
 Arg Val Glu Leu Gln Arg Glu Arg Arg Arg Gly Glu Glu Gln Arg Asp  
 210 215 220  
 Ser Phe Glu Gly Glu Arg Leu Ala Trp Gln Ala Glu Lys Glu Gln Val  
 225 230 235 240  
 Ile Arg Tyr Gln Lys Gln Leu Gln His Asn Tyr Ile Gln Met Tyr Arg  
 245 250 255  
 Arg Asn Arg Gln Leu Glu Gln Glu Leu Gln Gln Leu Ser Leu Glu Leu  
 260 265 270  
 Glu Ala Arg Glu Leu Ala Asp Leu Gly Leu Ala Glu Gln Pro Pro Ala  
 275 280 285  
 Ser Ala Trp Arg Arg Ser Leu Leu Leu Arg Ser Arg Ala Leu Ser Asn  
 290 295 300  
 Gln Leu Cys Arg Glu Leu Cys Gln Arg Gly Ser Ser Cys Arg Ser Thr  
 305 310 315 320

<210> 1001  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1001  
 Gly Leu Cys Phe Leu Pro Trp Val Gly Phe Ser Ser Met His Val Gly  
 1 5 10 15  
 Cys Phe Ser Leu Asn Leu Ile Val Cys Leu Val Cys Phe Pro Pro Phe  
 20 25 30  
 Pro Phe Leu Phe Lys Leu Ile His Arg Thr Gln Lys Phe Thr Arg Tyr  
 35 40 45  
 Glu His Leu Lys Lys Trp Asn Arg Glu Asn Gly Thr Ser His Val Ile  
 50 55 60  
 Lys Ile Asn Ile Val Leu  
 65 70

<210> 1002

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002

Ile Phe Tyr Thr Ile Leu Gln Trp Asp Arg Asn Cys Leu Thr Pro Ala  
1 5 10 15

Gly Val Thr Pro His Glu Pro Gln Gly Ser Ser Val Pro Lys Xaa Lys  
20 25 30

Lys Gly Asn Arg Trp Pro Pro Pro Leu Pro His Ser Pro Gly Thr Gln  
35 40 45

Asp Cys Ser Leu Lys Val Phe Glu Pro Pro Ser Phe Pro Phe Leu Leu  
50 55 60

Gly Gly Gln Gly Xaa Leu Asn Ser Arg Ala Leu Pro Val Leu Pro  
65 70 75

<210> 1003

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003

Ile Arg His Glu Gly Thr Leu Asn Gln Pro Leu Thr Lys Leu Asp Arg  
1 5 10 15

Ser Ser Glu Glu Pro Leu Gly Val Leu Val Asn Pro Asn Met Tyr Gln  
20 25 30

Ser Pro Pro Gln Trp Val Asp His Thr Gly Ala Ala Ser Gln Lys Lys  
35 40 45

Ala Phe Arg Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser Phe Gln His  
50 55 60

Gln Leu Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe Asp Gly Gly  
65 70 75 80

Trp Cys Leu Ser Val His Gln Pro Trp Xaa Ser Leu Leu Val Arg Gly  
85 90 95

Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His Arg Gly Arg  
100 105 110

Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln Glu Val Ser  
115 120 125

Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp Val Glu Phe  
130 135 140

Pro Asn Asp Tyr Pro Ser Val Val Phe Trp Ala Val Trp Thr  
145 150 155

<210> 1004

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1004

Ala Gly Thr Leu Thr Pro Ala Tyr Cys Leu Lys Thr Ser Pro Thr Gly  
1 5 10 15

Xaa Phe Met Val Ser Tyr Pro Leu Pro His Ile Phe Leu Ala Thr Arg  
20 25 30

Gln Glu Thr Tyr Leu Trp His Leu Gln Ile Ser Xaa Ile Xaa Phe Trp  
35 40 45

Xaa Phe Pro Cys Leu Ala Ile Cys Phe Ile Glu Trp Val Ser Glu Thr  
50 55 60

&lt;210&gt; 1005

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1005

Ser Ser Lys Phe Arg Ala Ile Asn Pro Ile Ser Val Ile Lys Ser Ser  
1 5 10 15

Thr Asp Asn Asn Glu Gln Leu Leu Lys Ser Asn Ile Leu Ser Leu Phe  
20 25 30

Thr Asn Val Ser Leu Ser Ile Gly Thr Phe Leu Xaa Tyr Leu Phe Ala  
35 40 45

Cys His Tyr Asp Gln Lys Lys Gln Lys Ala Thr Gln Lys Gly Gln Pro  
50 55 60

His Ser Lys

65

&lt;210&gt; 1006

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1006

Leu Asp Lys Lys Arg Lys Lys Asp Met Leu Asn Ser Lys Thr Lys Thr  
1 5 10 15

Gln Tyr Phe His Gln Glu Lys Trp Ile Tyr Val His Lys Gly Ser Thr  
20 25 30

Xaa Glu Arg His Gly Tyr Cys Thr Leu Gly Xaa Ala Phe Asn Arg Leu  
35 40 45

Asp Phe Ser Thr Ala Ile Leu Asp Ser Arg Arg Phe Asn Tyr Val Val  
50 55 60

Arg Leu Leu Glu Leu Ile Ala Lys Ser Gln Leu Thr Ser Leu Ser Gly  
65 70 75 80

Ile Ala Gln Lys Asn Phe Met Asn Ile Leu Glu Lys Val Val Leu Lys  
85 90 95

Val Leu Glu Asp Gln Gln Asn Ile Arg Leu Ile Arg Glu Leu Leu Gln  
100 105 110

Thr Leu Tyr Thr Ser Leu Cys Thr Leu Val Gln Arg Val Gly Lys Ser  
115 120 125

Val Leu Val Gly Asn Ile Asn Met Trp Val Tyr Arg Met Glu Thr Ile  
130 135 140

Leu His Trp Gln Gln Gln Leu Asn Asn Ile Gln Ile Thr Arg Pro Ala  
145 150 155 160

Phe Lys Gly Leu Thr Phe Thr Asp Leu Pro Leu Cys Leu Gln Leu Asn  
165 170 175

Ile Met Gln Arg Leu Ser Asp Gly Arg Asp Leu Val Ser Leu Gly Gln  
180 185 190

Leu Pro Pro Thr Cys Thr Cys Ser Ala Lys Thr Gly Cys Cys Gly Arg  
195 200 205

Asn Ser Ala Ser Thr Thr Ser Pro Ser Gly Arg Ser Ala Asn Asp  
 210 215 220

<210> 1007

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1007

Phe Gly Thr Ser Phe Cys Trp Cys Tyr Phe Gln Phe Tyr Phe Gln Cys  
 1 5 10 15

His Asn Arg Val Ile Phe Lys Gln Leu Leu Gln Ala Lys Ala Leu Gln  
 20 25 30

Phe Leu Gln Ile Asp Ser Cys Arg Leu Gly Ser Val Asn Glu Asn Leu  
 35 40 45

Ser Val Leu Leu Met Ala Lys Lys Phe Glu Ile Pro Val Cys Pro His  
 50 55 60

Ala Gly Gly Val Gly Leu Cys Glu Leu Val Gln His Leu Ile Ile Phe  
 65 70 75 80

Asp Tyr Ile Ser Val Ser Ala Ser Leu Glu Asn Arg Val Cys Glu Tyr  
 85 90 95

Val Asp His Leu His Glu His Phe Lys Tyr Pro Val Met Ile Gln Arg  
 100 105 110

Ala Ser Tyr Met Pro Pro Lys Asp Pro Gly Tyr Ser Thr Glu Met Lys  
 115 120 125

Glu Glu Ser Val Lys Lys His Gln Tyr Pro Asp Gly Glu Val Trp Lys  
 130 135 140

Lys Leu Leu Pro Ala Gln Glu Asn  
 145 150

<210> 1008

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008

```

Arg Glu Glu Ile Met Lys Gly Arg Glu Tyr Gln Glu Ala Gly Xaa Trp
 1               5               10               15

Gly Pro Ser Gln Arg Leu Pro Asn Thr Gly Tyr Ser Leu Ala Pro Asp
 20               25               30

Asp Ser Cys Ser Phe Gln Met Gln Asn Ala Pro Ser Gln Asp Leu Gln
 35               40               45

Lys Ser Tyr Pro Ile Ile Gly Leu Ala Gln Ser Ser Glu Pro Tyr His
 50               55               60

Leu Lys Phe Gln Val
 65

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**<210> 1009**

<211> 87

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009

```
Val Ile Val Asn Val Leu Asn Tyr Gln Leu Glu Gly Ile Phe Val Leu
   1               5             10              15

Lys Val Asp Ile Glu Glu Pro Lys Trp Met Met Gly Phe Gly Ala Ser
      20                25              30

Ser Glu Ser Met Phe Pro Leu Lys Tyr Phe Pro Lys Gln Trp Tyr Thr
     35                 40              45

Trp Leu Phe Tyr Tyr Glu Ile Cys Ile Cys Xaa Val Phe Leu Cys Glu
    50                  55              60

Gln Cys Phe Ser Leu Ser Val Thr Ile Cys Lys Gly Lys Ser Thr Asn
   65                   70              75              80

Ile Asp Tyr Ile Ala Gln Asn
      85
```

<210> 1010

<211> 164

<212> PRT

<213> Homo sapiens

<400> 1010

Asp His Pro Ala Glu Glu Leu Gly Gln Ser Ile Cys Ile Cys His Pro  
1 5 10 15

Arg Thr Leu Thr Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile  
20 25 30

Phe Gly Leu Leu Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met  
35 40 45

Ile Lys Leu Thr Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr  
50 55 60

Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr  
65 70 75 80

Asp Arg Cys Cys Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys  
85 90 95

Arg Gly Cys Gly Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly  
100 105 110

Ser Arg Ile Thr Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys  
115 120 125

Glu Cys Asp Lys Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr  
130 135 140

Tyr Asn Lys Lys Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser  
145 150 155 160

Thr Pro Arg Cys

<210> 1011

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (106)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1011

Pro Thr Arg Pro Arg Arg Ala Ala Phe Pro Val Trp Val Pro Glu Arg  
 1 5 10 15

Thr. Ala Leu Leu Thr Cys Pro Leu Gly Ala Ala Pro Gly Ser Ser Arg  
 20 25 30

Glu Ala Pro Gly Ile Ala Gly Pro Pro Asn Ser Thr Ala Met Ser Lys  
 35 40 45

Leu Gly Lys Phe Phe Lys Gly Gly Gly Ser Ser Lys Ser Arg Ala Ala  
 50 55 60

Pro Ser Pro Gln Glu Ala Leu Val Arg Leu Arg Glu Thr Glu Glu Met  
 65 70 75 80

Leu Gly Lys Lys Gln Glu Tyr Leu Glu Asn Arg Ile Gln Arg Glu Ile  
 85 90 95

Ala Leu Ala Lys Lys Xaa Gly Thr Gln Xaa Lys Arg Gly Ile Xaa Thr  
 100 105 110

Lys

&lt;210&gt; 1012

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

Leu Thr Asp Leu Pro Cys Asn Lys Ile Val Phe Cys Glu Lys Gln Glu  
 1 5 10 15

Met Asn Asn Asn Ser Val Gly Thr Pro Leu Gln Ile Ser Gln Glu Ile  
 20 25 30

Gln Lys Asn Cys Glu Gln Val Ala Gly Phe Thr Ile Leu Gln Asp Thr  
 35 40 45

Ala Ser Tyr Ser Lys Phe Leu Gln Asp Asn Asp Ala Gln Leu Phe Thr  
50 55 60

Tyr Leu Cys Leu Asn Ile Pro Ile Ser Leu Thr Phe Ile Leu Trp  
65 70 75

<210> 1013

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1013

Gln Asp Arg Glu Gly Phe Gly Ser Gly Gln Ala Gly Asp Gly Tyr Glu  
1 5 10 15

His Leu Ser Phe Glu Thr Cys Arg Gly Gly Asn Glu Gly Arg Gly Pro  
20 25 30

Cys Val Glu Val Phe Ile Gln Glu Ala Val Val Pro Leu Gly Leu Asn  
35 40 45

Ile Ala Ser Xaa Arg Gln  
50

<210> 1014

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1014

Ala Gly Asp Leu Arg Ala Gly Ser Thr Leu Lys Arg Phe Gly Phe Pro

1                      5                      10                      15  
 Arg Pro Gly Trp Gly Glu Arg Ala Gly Cys Pro Leu Asp Ser Pro Pro  
                     20                      25                      30  
 Pro His Leu Met Ser Arg Pro Ser Ala Pro Trp Ser Xaa Ala Ile Met  
                     35                      40                      45  
 Pro Pro Trp Xaa Gly Ala Lys Asp Ile Glu Gly Leu Leu Gly Ala Gly  
                     50                      55                      60  
 Gly Gly Arg Asn Leu Val Ala His Ser Pro Leu Thr Ser His Pro Ala  
                     65                      70                      75                      80  
 Ala Pro Thr Leu Met Pro Ala Val Asn Tyr Ala Pro Leu Asp Leu  
                     85                      90                      95

<210> 1015

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

Gln Lys Arg Ser Glu Asn Ile Lys Gln Val Glu Val Trp Ser Ile Leu  
 1                      5                      10                      15  
 Ser Lys Met Asn Ile Ser Gly Ser Ser Cys Gly Ser Pro Asn Ser Ala  
                     20                      25                      30  
 Asp Thr Ser Ser Asp Phe Lys Asp Leu Trp Thr Lys Leu Lys Glu Cys  
                     35                      40                      45  
 His Asp Arg Glu Val Gln Gly Leu Gln Val Lys Val Thr Lys Leu Lys  
                     50                      55                      60  
 Gln Glu Arg Ile Leu Asp Ala Gln Arg Leu Glu Glu Phe Phe Thr Lys  
                     65                      70                      75                      80  
 Asn Gln Gln Leu Arg Glu Gln Gln Lys Val Leu His Glu Thr Ile Lys  
                     85                      90                      95  
 Val Leu Glu Asp Arg Leu Arg Ala Gly Leu Cys Asp Arg Cys Ala Val  
                     100                      105                      110

Thr Glu Glu His Met Arg Lys Lys Gln Gln Glu Phe Glu Asn Ile Pro  
115 120 125

Ala Ala Xaa Ser  
130

<210> 1016  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1016  
Gly Gly Arg Phe Xaa Val His Arg Thr Pro Ile Thr His Pro Ala Ser  
1 5 10 15

Gln Val Glu Gly Leu Gln Val Arg Arg Cys Ile Pro Gln Gly Leu Met  
20 25 30

Leu Ser Ala Ile Phe Ile Pro Arg Gln Xaa Ser  
35 40

<210> 1017  
<211> 188  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (188)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1017

Cys Arg Ala Ser Phe Ala Gly Pro Ala Ala Leu Gln Asp Arg Asp Trp  
 1 5 10 15

Gln Arg Thr Val Ile Ala Met Asn Gly Ile Glu Val Lys Leu Ser Val  
 20 25 30

Lys Phe Asn Ser Arg Glu Phe Ser Leu Lys Arg Met Pro Ser Arg Lys  
 35 40 45

Gln Thr Gly Val Phe Gly Val Lys Ile Ala Val Val Thr Lys Arg Glu  
 50 55 60

Arg Ser Lys Val Pro Tyr Ile Val Arg Gln Cys Val Glu Glu Ile Glu  
 65 70 75 80

Arg Arg Gly Met Glu Glu Val Gly Ile Tyr Arg Val Ser Gly Val Ala  
 85 90 95

Thr Asp Ile Gln Ala Leu Lys Ala Xaa Phe Asp Val Asn Asn Lys Asp  
 100 105 110

Val Ser Val Met Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr  
 115 120 125

Leu Lys Leu Tyr Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu  
 130 135 140

Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser Asp Pro Val Ala  
 145 150 155 160

Lys Glu Ser Cys Met Leu Asn Leu Leu Leu Ser Leu Ala Gly Ala Asn  
 165 170 175

Leu Ala Ser Xaa Phe Leu Phe Leu Phe Gly Thr Xaa  
 180 185

&lt;210&gt; 1018

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1018

Gly Thr Ser Val Asp Glu Gly Ser Ile Ser Pro Arg Thr Leu Ser Ala  
1 5 10 15

Ile Lys Arg Ala Leu Asp Asp Asp Xaa Asp Val Lys Val Cys Ala Gly  
20 25 30

Asp Asp Val Gln Thr Gly Gly Pro Gly Ala Glu Glu Met Arg Ile Asn  
35 40 45

Ser Ser Thr Glu Asn Ser Asp Glu Gly Leu Lys Val Arg Asp Gly Lys  
50 55 60

Gly Ile Pro Phe Thr Ala Thr Leu Ala Ser Ser Ser Val Asn Ser Ala  
65 70 75 80

Glu Glu His Val Ala Ser Thr Asn Glu Gly Arg Glu Pro Thr Asp Ser  
85 90 95

Val Pro Lys Glu Gln Met Ser Leu Val His Val Gly Thr Glu Ala Phe  
100 105 110

Pro Ile Ser Asp Glu Ser Met Ile Lys Asp Arg Lys Asp Arg Leu Pro  
115 120 125

Leu Glu Ser Ala Val Val Arg His Ser Asp Ala Pro Gly Leu Pro Asn  
130 135 140

Gly Arg Glu Leu Thr Pro Ala Ser Xaa Thr Cys Thr Asn Ser Val Ser  
145 150 155 160

Lys Asn Glu Thr His Ala Glu Val Leu Glu Gln Gln Asn Glu Leu Cys  
165 170 175

Pro Tyr Glu Ser Lys Phe Asp Ser Ser Leu Leu Ser Ser Asp Asp Glu  
180 185 190

Thr Lys Cys Lys Pro Asn Ser Ala Ser Glu Val Ile Gly Pro Val Ser  
195 200 205

Leu Gln Glu Thr Ser Ser Ile Val Ser Val Pro Ser Glu Ala Val Asp  
210 215 220

Asn Val Glu Asn Val Val Ser Phe Asn Ala Lys Glu His Glu Asn Phe



[illegible]

<210> 1019

<211> 90

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1019**

Val Leu Leu Ile Thr Phe Leu Gly Glu Glu Lys Lys Cys Tyr Ser Cys  
 1 5 10 15  
 Lys Gln Met Tyr Ser Phe Gln Lys Glu Ala Thr Phe Leu Leu Pro Ser  
 20 25 30  
 Leu Phe Leu Val Ser Ser Pro Arg Leu Ala Ile Xaa Ile Gly Ile Val  
 35 40 45  
 Met Ala Ser Ile Leu Ser Leu Leu His Pro Tyr Leu Leu Leu Cys Asp  
 50 55 60  
 Phe Ala Ala Pro Leu Ile Lys Glu Ala Glu Pro Pro Leu Pro Pro Ile  
 65 70 75 80  
 Gly Ala Gly Phe Glu Ser Asn Arg Met Lys  
 85 90

<210> 1020

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020

Thr Arg Pro Ile Arg Pro Pro His Gln Ile Pro Val Asp Thr Leu Xaa  
 1 5 10 15  
 His Val Ile Asn Gln Thr Gly Gly Tyr Ser Asp Gly Leu Gly Gly Asn  
 20 25 30  
 Ser Leu Tyr Ser Pro His Asn Leu Asn Ala Asn Xaa Gly Trp Gln Asp  
 35 40 45  
 Ala Thr Thr Pro Ser Ser Val Thr Ser Pro Thr Glu Gly Pro Gly Ser  
 50 55 60  
 Val His Ser Asp Thr Ser Asn  
 65 70

&lt;210&gt; 1021

&lt;211&gt; 301

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1021

```

Pro Thr Pro Pro Thr Pro Ile Arg Thr Ala Ala Gln Arg Arg Glu Ile
  1             5             10             15

Trp Asp Phe Pro Gly Gln Ile Asp Phe Phe Asp Pro Thr Phe Asp Tyr
      20             25             30

Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Phe Val Ile Asp Ser
      35             40             45

Gln Asp Asp Tyr Met Glu Ala Leu Ala Arg Leu His Leu Thr Val Thr
      50             55             60

Arg Ala Tyr Lys Val Asn Thr Asp Ile Asn Phe Glu Val Phe Ile His
      65             70             75             80

Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp
      85             90             95

Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys
      100            105            110

Ile His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe
      115            120            125

Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr
      130            135            140

Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys
      145            150            155            160

Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser
      165            170            175

Thr Pro Val Asp Met Gln Thr Tyr Glu Leu Cys Cys Asp Met Ile Asp
      180            185            190

Val Val Ile Asp Ile Ser Cys Ile Tyr Gly Leu Lys Glu Asp Gly Ala
      195            200            205

Gly Thr Pro Tyr Asp Lys Glu Ser Thr Ala Ile Ile Lys Leu Asn Asn
      210            215            220

Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val

```

225                      230                      235                      240  
 Cys Phe Val Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr  
                          245                      250                      255  
 Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Arg  
                          260                      265                      270  
 Met Lys Val Val Lys Ser Arg Lys Val Gln Asn Arg Leu Gln Lys Lys  
                          275                      280                      285  
 Lys Arg Ala Thr Pro Asn Gly Thr Pro Arg Val Leu Leu  
                          290                      295                      300

<210> 1022

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1022

Thr Ala Asn Arg Gly Ser Ser Ala Ser Xaa Lys Ala Asp Ser Gly Leu  
   1                      5                      10                      15  
 Ala Gln Ser Asp Gly Arg Asp Pro Pro Thr Leu Trp Gly Trp Ser Leu  
                          20                      25                      30  
 His Leu Ala Leu  
                          35

<210> 1023

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1023

Ile Arg Gln Ser Ser Arg Glu Arg Ile Trp Arg Pro Pro Leu Trp Ile  
   1                      5                      10                      15  
 Leu Ala Arg Pro Gly Ser Ala Val Ala Val Arg Ala Gly Phe Pro Thr  
                          20                      25                      30  
 Pro Cys Arg Pro Pro Ser Leu Ser Ala Leu Ser Pro Ser Ala Ser Gln

35	40	45
Pro Cys Ser Arg Arg Arg Thr Gly Leu Ser Pro Gly Ser Trp Gly Trp		
50	55	60
Pro Pro Ser Thr Arg Ser Ala Cys Phe Leu Thr Cys Leu Ser Ser Arg		
65	70	75 80
Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val Ile Leu Val		
85	90	95
Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Ala Met Asn Trp Arg Leu		
100	105	110
Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe Ile Ser Ile		
115	120	125
Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile Val Val Met		
130	135	140
Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys Asn Ala Gln		
145	150	155 160
Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp		
165	170	

&lt;210&gt; 1024

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024

Ala	Trp	Gly	Ala	Ala	Arg	Arg	Gly	Arg	Gln	Arg	Pro	Cys	Pro	Leu	Leu
1				5					10					15	
Ala	Gly	Arg	Thr	Glu	Phe	Trp	Pro	Xaa	Cys	Glu	Gly	Lys	Ala	Glu	Ala
		20						25					30		
Cys	Xaa	Gly	Xaa	Trp	Phe	Lys	Leu	Xaa	Gly	Gln	Gly	Lys	Gly	Arg	Gly
	35						40					45			
Glu	Trp	Phe	Ser	Arg	Ser	Arg	Arg	Leu	Cys	Ser	Arg	Trp	Thr	Leu	Glu
	50					55					60				
Asn	Lys	Gly	Glu	Ser	Ser	Arg	Glu	Gln							
65						70									

<210> 1025

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1025

Leu	Leu	Pro	Glu	Thr	Ala	Leu	Leu	Asn	Met	Arg	Ala	Ala	Pro	Leu	Leu
1					5					10				15	
Leu	Ala	Arg	Ala	Ala	Ser	Leu	Ser	Leu	Gly	Phe	Leu	Phe	Leu	Leu	Phe
		20							25				30		
Phe	Trp	Leu	Asp	Arg	Ser	Val	Leu	Ala	Lys	Glu	Leu	Lys	Phe	Val	Thr
	35						40					45			
Leu	Val	Phe	Arg	His	Gly	Asp	Arg	Ser	Pro	Ile	Asp	Thr	Phe	Pro	Thr
	50					55					60				
Asp	Pro	Ile	Lys	Glu	Ser	Ser	Trp	Pro	Gln	Gly	Phe	Gly	Gln	Leu	Thr
65					70					75				80	
Gln	Leu	Gly	Met	Glu	Gln	His	Tyr	Glu	Leu	Gly	Glu	Tyr	Ile	Arg	Lys
			85						90					95	
Arg	Tyr	Arg	Lys	Phe	Leu	Asn	Glu	Ser	Tyr	Lys	His	Glu	Gln	Val	Tyr
		100						105					110		
Ile	Arg	Ser	Thr	Asp	Val	Asp	Arg	Thr	Leu	Met	Ser	Ala	Met	Thr	Asn
	115						120					125			
Leu	Ala	Ala	Leu	Phe	Pro	Pro	Glu	Gly	Val	Ser	Ile	Trp	Asn	Pro	Ile

130

135

140

Leu Leu Trp Gln Pro Ile Pro Val His Thr Val Pro Leu Ser Glu Asp  
 145 150 155 160

Gln Leu Leu Tyr Leu Thr Phe Gln Glu Leu Pro  
 165 170

5

&lt;210&gt; 1026

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

Ala Asn Trp Asp Leu Glu Met Ile Leu Arg Cys Ser Ser Asn Asp Leu  
 1 5 10 15

Glu Leu Leu Gln Ala Glu His Gly Ile Leu Lys Ile Gly Glu Thr Asn  
 20 25 30

Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu  
 35 40 45

Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val  
 50 55 60

Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val  
 65 70 75 80

Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala  
 85 90 95

Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr  
 100 105 110

Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr  
 115 120 125

Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser  
 130 135 140

Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu  
 145 150 155 160

Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg  
 165 170 175

His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser  
 180 185 190

Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp  
 195 200 205

Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala  
 210 215 220

Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala  
 225 230 235

<210> 1027

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1027

Gly Pro Thr Thr Thr Lys Phe Ala Ala Arg Arg Gln Gly Val Leu Leu  
 1 5 10 15

Ile Thr Met Asn Val Leu Leu Gly Ser Val Val Ile Phe Ala Thr Phe  
 20 25 30

Val Thr Leu Cys Asn Ala Ser Cys Tyr Phe Ile Pro Asn Glu Gly Val  
 35 40 45

Pro Gly Asp Ser Thr Arg Lys Cys Met Asp Leu Lys Gly Asn Lys His  
 50 55 60

Pro Ile Asn Ser Glu Trp Gln Thr Asp Asn Cys Glu Thr Cys Thr Cys  
 65 70 75 80

Tyr Glu Thr Glu Ile Ser Cys Cys Thr Leu Val Ser Thr Pro Val Gly  
 85 90 95

Tyr Asp Lys Asp Asn Cys Gln Arg Ile Phe Lys Lys Glu Asp Cys Lys  
 100 105 110

Tyr Ile Val Val Glu Lys Lys Asp Pro Lys Lys Thr Cys Ser Val Ser  
 115 120 125

Glu Trp Ile Ile  
 130

<210> 1028

<211> 116

<212> PRT

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1028

Ser	Leu	Thr	Ser	Cys	Ile	Leu	Glu	Ile	Leu	Gln	Ser	Leu	Ser	Tyr	Ser
1				5					10					15	

Tyr	Gln	Asn	Ser	Cys	Arg	Pro	Leu	Thr	Pro	Asp	Ser	Pro	Cys	Leu	Gln
			20					25					30		

Cys	Pro	Pro	Ala	Cys	Arg	Gly	Gly	Xaa	Val	Thr	Ala	Thr	Leu	Ser	His
			35				40					45			

Gln	Leu	Phe	Ser	Ile	Cys	Arg	Pro	Ser	Trp	Gly	Arg	Val	Pro	Ser	Ser
	50					55					60				

Cys	Ser	Pro	Cys	Leu	Trp	Glu	Lys	Ser	His	Val	Leu	Phe	Ile	Ser	Pro
	65				70					75					80

His	Cys	Thr	Leu	Ser	Leu	Thr	Leu	Asp	Tyr	Asn	Ser	Ser	Glu	Phe	Asp
			85						90					95	

Leu	His	Leu	Leu	Asp	Lys	Pro	Gly	Thr	Val	Leu	Gly	Ile	Met	Xaa	Thr
			100					105						110	

Ile	Arg	Gln	Ile
			115

&lt;210&gt; 1029

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1029

Thr	Leu	Lys	Ser	Glu	Glu	Phe	Gln	Lys	Arg	Leu	His	Pro	Tyr	Lys	Asp
1				5					10					15	

Phe	Ile	Ala	Thr	Leu	Gly	Lys	Leu	Ser	Gly	Leu	His	Gly	Gln	Asp	Leu
			20					25					30		

Phe	Gly	Ile	Trp	Ser	Lys	Val	Tyr	Asp	Pro	Leu	Tyr	Cys	Glu	Ser	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35	40	45
His Asn Phe Thr Leu Pro Ser Trp Ala Thr Glu Asp Thr Met Thr Lys		
50	55	60
Leu Arg Glu Leu Ser Glu Leu Ser Leu Leu Ser Leu Tyr Gly Ile His		
65	70	75 80
Lys Gln Lys Glu Lys Ser Arg Leu Gln Gly Gly Val Leu Val Asn Glu		
	85	90 95
Ile Leu Asn His Met Lys Arg Ala Thr Gln Ile Pro Ser Tyr Lys Lys		
	100	105 110
Leu Ile Met Tyr Ser Ala His Asp Thr Thr Val Ser Gly Leu Gln Met		
	115	120 125
Ala Leu Asp Val Tyr Asn Gly Leu Leu Pro Pro Tyr Ala Ser Cys His		
	130	135 140
Leu Thr Glu Leu Tyr Phe Glu Lys Gly Glu Tyr Phe Val Glu Met Tyr		
	145	150 155 160
Tyr Arg Asn Glu Thr Gln His Glu Pro Tyr Pro Leu Met Leu Pro Gly		
	165	170 175
Cys Ser Pro Ser Cys Pro Leu Glu Arg Phe Ala Glu Leu Val Gly Pro		
	180	185 190
Val Ile Pro Gln Asp Trp Ser Thr Glu Cys Met Thr Thr Asn Ser His		
	195	200 205
Gln Gly Thr Glu Asp Ser Thr Asp		
	210	215

&lt;210&gt; 1030

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1030

His His Ala Trp Leu Ile Phe Leu Ile Xaa Ile Phe Ser Arg Asp Lys
1 5 10 15

Val Ala Leu Cys Cys Pro Gly Trp Tyr Gly Thr Pro Val Leu Lys Arg  
                   20                  25                  30

Ser Ser Cys Leu Gly Phe Pro Lys Cys  
           35                  40

<210> 1031  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031  
 Pro Gly Trp Ser Gln Ser Xaa Gly Leu Arg Pro Ser Phe His Leu Ile  
   1                  5                  10                  15

Leu Pro Lys Asn Trp Asp Tyr Arg His Glu Gln Leu His Leu Val His  
                   20                  25                  30

Met Leu Leu Ile Val Glu Glu Val Lys Gly Gln  
           35                  40

<210> 1032  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1032  
 Gln Gly Phe Trp His Gln Leu Glu Ile Leu Trp Met Asp Val Leu Pro  
   1                  5                  10                  15

Trp Ser Phe Tyr Phe Asn Val Leu Thr Thr Tyr Asp Ser Ser Ile Cys  
           20                  25                  30

Ser Ile Asn Tyr Ile His Tyr His Ser Asn Ser His His Leu Ile Cys  
           35                  40                  45

Ile Xaa Tyr Leu Ile Leu Pro Ser Asn Tyr Gly Ile Ser Asp Leu

50

55

60

&lt;210&gt; 1033

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1033

Lys Leu Cys Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe  
1 5 10 15

Ser Asn Ile Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr  
20 25 30

Thr Pro Ala Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn  
35 40 45

Leu Leu Ile Ser Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser  
50 55 60

&lt;210&gt; 1034

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1034

Val Asn Leu Ala Cys Gly Ala Pro Leu Lys Cys Glu Asp Leu Ala Xaa  
1 5 10 15

Trp Leu Lys Ile Lys Leu Gly Phe Val Leu Asn Ile Leu Ala Gly Pro  
20 25 30

Ile	Ile	His	Lys	Lys	Arg	Gly	His	Ser	Pro	Phe	Ala	Arg	Leu	Leu	Asn
		35					40					45			
Glu	Leu	His	Ser	Phe	Cys	Thr	Trp	Lys	Cys	Leu	Phe	Ser	His	Lys	Lys
		50				55					60				
Asn	Asn	Ser	Tyr	Asn	Leu	Ile	Ser	Leu	Val	Pro	Tyr	Gln	Gln	Lys	Lys
65					70					75					80
Ser	Gln	Glu	Thr	Ile	Met	Lys	Thr	Leu	Val	Ser	Ser	Leu	Gly	Asp	Tyr
				85					90					95	
Ile	Met	Leu	Xaa	Ser	Leu	Ile	Ile	Xaa	Leu	Tyr	Leu	Asn	Lys	Tyr	Ile
			100					105					110		

**Phe**

**<210> 1035**

<211> 143.

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (23)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1035**

Gly Leu Arg Asp Leu Asp Ser Asn Pro Arg Ala Leu Ser Cys Tyr Ser  
1 5 10 15

Gly Val Ser Thr Val Arg Xaa Gly Pro Gly Ala Leu Ser His His Leu  
20 25 30

Pro	Arg	Pro	Arg	Asp	His	His	Pro	Leu	Lys	Arg	Gly	Pro	Ser	Pro	Leu
		35					40					45			

Ser Thr Pro Ser Arg Asp Pro Ala Leu Gly Cys Ser Arg Leu Thr Ala  
50 55 60

His Gly Val Leu Phe Trp Ala Thr Ala Ala Arg Ala Pro Gly Arg Gly  
65 70 75 80

Xaa Gly Thr Pro Glu Asn Thr Pro Leu Phe Met Val Leu Cys Pro Phe  
                     85                    90                    95  
 Ile Arg Arg Leu Leu Lys Asn Trp Ala Val Cys Lys Ala Asn Pro Ala  
                     100                    105                    110  
 Pro Cys Pro Ser Arg Phe Ser Glu Arg Gly Val Pro Trp Glu Trp Ser  
                     115                    120                    125  
 Cys Ser Pro His Gly Ser Thr Thr Phe Pro Val Pro Arg Cys His  
                     130                    135                    140

<210> 1036

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036

Glu His Ile Trp Leu Ser Ile Trp Asp Arg Pro Pro Arg Ser Cys Phe  
   1                    5                    10                    15

Thr Arg Ile Gln Arg Ala Thr Cys Cys Val Leu Leu Ile Cys Leu Phe  
                     20                    25                    30

Leu Gly Ala Asn Ala Val Trp Tyr Gly Ala Val Gly Asp Ser Ala Tyr  
                     35                    40                    45

Ser Thr Gly Xaa Val Ser Arg Leu Xaa Pro Leu Ser Val Asp Thr Val  
                     50                    55                    60

Ala Val Gly Leu Val Ser Ser Val Val Val Tyr Pro Val Tyr Leu Ala  
65 70 75 80

Xaa Leu Phe Leu Phe Xaa Met Ser Arg Ser Lys Val Ile Asn Thr Leu  
85 90 95

Ala Asp His Arg His Arg Gly Thr Asp Phe Gly Gly Ser Pro Trp Leu  
100 105 110

Leu Ile Ile Asn Cys Val Ser Glu Lys Leu  
115 120

<210> 1037

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1037

Thr Pro Gly Leu Lys Gln Ser Phe Cys Leu Gly Pro Pro Lys Cys Trp  
1 5 10 15

Asp Cys Gly His Glu Leu Leu Cys Pro Ala Ser Met Phe  
20 25

<210> 1038

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1038

Glu Thr Ala Arg Gly Thr Gly Arg Asn Gly Leu Ser Ala Leu Asn His  
1 5 10 15

His Lys Pro Trp Leu Arg Lys Gly His Ala Ser Pro Ser Arg Arg Met  
20 25 30

Thr Pro Ile Arg Asp Pro Gln Arg Arg Cys Met Ser Ile Leu Ala Pro  
 35 40 45  
 Arg Ala Val Met Gln Pro Ala Arg Ser Gln Gly Glu Gly Thr Gln Lys  
 50 55 60  
 Pro Gly Met Leu Ala Lys Gly Val Lys Glu Thr Phe Glu Leu Phe Thr  
 65 70 75 80  
 Ala Cys Ser Asn Tyr Val Lys Xaa Thr Pro Leu Asn Lys Ile Trp Ser  
 85 90 95  
 Met Phe Val Xaa Leu Tyr Leu Ile  
 100

<210> 1039  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1039  
 Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg  
 1 5 10 15  
 Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val  
 20 25 30  
 Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg  
 35 40 45  
 Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile  
 50 55 60  
 Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg  
 65 70 75 80  
 Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr  
 85 90 95  
 Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala  
 100 105 110  
 Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe  
 115 120 125  
 Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser  
 130 135 140  
 Asp Phe Leu Ile Lys Ser Ile Asn Leu Glu Lys Lys



145

150

155

&lt;210&gt; 1040

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1040

Pro Ser Pro Cys Pro Cys Ser Cys Ala Trp Val Arg Trp Pro Arg Arg  
1 5 10 15

Thr Pro Pro Ser Arg Thr Thr Arg Ala Arg Thr His Gln Xaa Arg Asp  
20 25 30

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
35 40 45

Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp  
50 55 60

Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu  
65 70 75 80

Asp Pro Ala Met Trp  
85

&lt;210&gt; 1041

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1041

Leu Gly Gln Tyr Gln Pro Ala Arg Glu Glu Ile Ser Lys Asp Leu Arg  
1 5 10 15

Ala Thr Leu Asn Ala Phe Leu Tyr His Met Gly Gln His Ser Asn Lys  
20 25 30

Phe Met Leu Val Leu Ala Ser Asn Leu Pro Glu Gln Phe Asp Cys Ala  
35 40 45

Ile Asn Ser Arg Ile Asp Val Met Val His Phe Asp Leu Pro Gln Xaa  
50 55 60

Glu Glu Arg Glu Arg Leu Val Arg Leu His Phe Asp Asn Cys Val Leu  
65 70 75 80

Lys Pro Ala Thr Glu Gly Lys Arg Arg Leu Lys Leu Ala Gln Phe Asp  
85 90 95

Tyr Gly Arg Lys Cys Ser Glu Val Ala Arg Leu Thr Glu Gly Met Ser  
100 105 110

Gly Arg Glu Ile Ala Gln Leu Ala Val Ser Trp Gln Ala Thr Ala Tyr  
115 120 125

Ala Ser Lys Asp Gly Val Leu Thr Glu Ala Met Met Asp Ala Cys Val  
130 135 140

Gln Asp Ala Val Gln Gln Tyr Arg Gln Lys Met Arg Trp Leu Lys Ala  
145 150 155 160

Glu Gly Pro Gly Arg Gly Val Glu His Pro Leu Ser Gly Val Gln Gly  
165 170 175

Glu Thr Leu Thr Ser Trp Ser Leu Ala Thr Asp Pro Ser Tyr Pro Cys  
180 185 190

Leu Ala Gly Pro Cys Thr Phe Arg Ile Cys Ser Trp Met Gly Thr Gly  
195 200 205

Leu Cys Pro Gly Pro Leu Ser Pro Arg Met Ser Cys Gly Gly Gly Arg  
210 215 220

Pro Phe Cys Pro Pro Gly His Pro Leu Leu  
225 230

<210> 1042

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1042

Ala Asn Leu Met Lys Cys Lys Val Gln Ala Gly Met Ile Xaa Ser Val  
1 5 10 15

Cys Lys Asp Lys Ser Phe Asp Asp Glu Glu Ser Val Asp Gly Asn Arg  
20 25 30

Pro Ser Ser Ala Ala Ser Ala Phe Lys Val Pro Ala Leu Lys His Pro  
35 40 45

Glu Ile Leu Pro Thr Val Gln Gly Ser Trp Phe Ser Arg Trp Pro  
50 55 60

&lt;210&gt; 1043

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

Gln Leu Arg Ser Arg Ala Gly Leu Leu Ser Ser Thr Val Arg Ala Arg  
1 5 10 15

Asn Trp Pro Gln Asn Pro Gln Ser Gln Pro Trp Gly Pro Leu Gly Pro  
20 25 30

Gln Thr Pro Val Phe Ser Phe Cys Val Ala Ser Trp Phe Pro Gly Val  
35 40 45

Leu Phe Tyr Ala Ala Ser Gly Val Arg Ser Ser Ala Phe Asn Leu Phe  
50 55 60

&lt;210&gt; 1044

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1044

Ala Ser Arg Ser Leu Pro Thr Ala Ala Val His Val Arg Leu Leu Pro  
1 5 10 15

Leu Cys Ala Glu Arg Gln Glu Asp His Glu Asn Asp Pro Leu Ser Glu  
20 25 30

Leu Gln Arg Gln Ile Ala Gln Pro Glu Met Arg Cys Thr Ile Arg Leu  
35 40 45

Leu Asp Asp Ser Glu Ile Ser Cys His Ile Gln Arg Glu Thr Lys Gly  
50 55 60

Gln Phe Leu Ile Asp His Ile Cys Asn Tyr Tyr Ser Leu Leu Glu Lys  
65 70 75 80

Asp Tyr Phe Gly Ile Arg Tyr Val Asp Pro Glu Lys Gln Arg His Trp  
85 90 95

Ala

<210> 1045

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1045

Thr Leu Ile Phe Pro Pro Leu Arg Ile Ile Asn Phe Leu Ser Phe Tyr  
1 5 10 15

His Ile Cys Phe Arg Ser Phe Phe Phe Leu Lys Lys Ser Ile Thr Asp  
20 25 30

Leu Ala Lys Val Pro Phe Asp Gln Tyr Pro Thr  
35 40

<210> 1046

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1046

Arg	Ser	Gly	Arg	Leu	Arg	Leu	Ser	Leu	Tyr	Cys	Gly	Ala	Gly	Gln	Gly
1				5					10					15	

Val	Arg	Ala	Gly	Arg	Gly	Thr	Gly	Thr	Pro	Ala	Val	Xaa	Gly	Arg	Leu
			20					25						30	

Glu	Ile	Met	Glu	Gly	Lys	Trp	Leu	Leu	Cys	Met	Leu	Leu	Val	Leu	Gly
		35					40					45			

Thr	Ala	Ile	Val	Glu	Ala	His	Asp	Gly	His	Asp	Asp	Asp	Val	Ile	Asp
	50					55					60				

Ile	Glu	Asp	Asp	Leu	Asp	Asp	Val	Ile	Glu	Glu	Val	Glu	Asp	Ser	Lys
65					70					75					80

Pro	Asp	Thr	Thr	Ala	Pro	Pro	Ser	Ser	Pro	Lys	Val	Thr	Tyr	Lys	Ala
				85					90					95	

Pro	Val	Pro	Thr	Gly	Glu	Val	Tyr	Phe	Ala	Asp	Ser	Phe	Asp	Arg	Gly
			100					105					110		

Thr	Leu	Ser	Gly	Trp	Ile	Leu	Ser	Lys	Ala	Lys	Lys	Asp	Asp	Thr	Asp
	115						120					125			

Asp	Glu	Ile	Ala	Lys	Tyr	Asp	Gly	Lys	Trp	Glu	Val	Glu	Glu	Met	Lys
	130						135				140				

Glu	Ser	Lys	Leu	Pro	Gly	Asp	Lys	Gly	Leu	Val	Leu	Met	Ser	Arg	Ala
145					150					155					160

Lys	His	His	Ala	Ile	Ser	Ala	Lys	Leu	Asn	Lys	Pro	Phe	Leu	Phe	Asp
					165				170					175	

Thr Lys Pro Leu Ile Xaa Gln Tyr Glu Xaa Asn Phe Gln Asn Gly Ile  
180 185 190

Glu Cys Gly Gly Ala Tyr Val Lys Leu Leu Ser Lys Thr Pro Glu Leu  
195 200 205

Xaa Leu Asp Xaa Val Xaa Arg Thr Ile Asn Cys Leu His  
210 215 220

<210> 1047  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1047  
Gly Ile Pro Pro His Phe Cys Gly Phe Phe Pro Val Val Asp Asp Gln  
1 5 10 15

Gly Trp Asn Leu Gln Ser Met Gly Pro Asp Phe Leu Pro Ser Ser Gln  
20 25 30

Ile Asp Ser Ala Ala Ser His Leu Cys Ser Ala Pro Val Ala Leu Lys  
35 40 45

Cys Asn Arg Asn His His Pro Arg Thr Met Gly Ser Met Pro Val Gly  
50 55 60

Lys Ala Gln Val Arg Ser Leu Ser Ser Gln His Ile Ala Val Ala Gly  
65 70 75 80

Thr Trp

<210> 1048  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048

Pro Gly Ser Pro Asp Gln Arg Pro Thr Pro Gln Gly Glu Phe Ile Leu  
1 5 10 15

Cys Gln Gln Gln Ser Phe Pro Ser Ser Glu Ala Ser His Pro His Pro  
20 25 30

Arg Arg Gln Gly Lys Gln Ala Arg Gly Gly Gln Glu Ser Ser Gln Leu  
35 40 45

Ser Glu Ala Ala Pro Pro Ala Pro Lys His Leu Pro Cys Ser Gln Leu  
50 55 60

Xaa Xaa Gln Leu Leu Pro Ala Ala Lys Xaa Thr Ala Ala Phe Arg Leu  
65 70 75 80

Thr Ser Met Pro Leu  
85

<210> 1049

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1049

Ser Pro Cys Arg Glu Glu Ser Gln Gln Ile Ile Ser Lys Leu Glu Asn  
1 5 10 15

Gln Glu Ile Thr Val Ile Ile Arg Asp Ile Trp Gly Gly Tyr Lys Tyr  
20 25 30

Gln Asn Lys Lys Ile Lys Glu Met Lys Ile Val Val Ser Gly Glu Leu  
35 40 45

Lys Ser Lys Ile Gln Arg Cys Glu Ala Asp Leu Ile Tyr Tyr Leu Thr  
50 55 60

Cys Ile Leu Phe Ile Ala Gln Tyr Ser Val Phe  
65 70 75

<210> 1050  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1050  
 Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu  
           1                  5                  10                  15  
 Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu  
                   20                  25                  30  
 Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr  
           35                  40

<210> 1051  
 <211> 341  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1051  
 Gly Pro Gln Glu Met Thr Ala Gly Gly Gln Ala Glu Ala Glu Gly Ala  
           1                  5                  10                  15  
 Gly Gly Glu Pro Gly Ala Ala Arg Leu Pro Ser Arg Val Ala Arg Leu  
                   20                  25                  30  
 Leu Ser Ala Leu Phe Tyr Gly Thr Cys Ser Phe Leu Ile Val Leu Val  
           35                  40                  45  
 Asn Lys Ala Leu Leu Thr Thr Tyr Gly Phe Pro Ser Pro Ile Phe Leu  
           50                  55                  60  
 Gly Ile Gly Gln Met Ala Ala Thr Ile Met Ile Leu Tyr Val Ser Lys



65		70		75		80
Leu Asn Lys Ile Ile His Phe Pro Asp Phe Asp Lys Lys Ile Pro Val						
	85		90		95	
Lys Leu Phe Pro Xaa Pro Leu Leu Tyr Val Gly Asn His Ile Ser Gly						
	100		105		110	
Leu Ser Ser Thr Ser Lys Leu Ser Leu Pro Met Phe Thr Val Leu Arg						
	115		120		125	
Lys Phe Thr Ile Pro Leu Thr Leu Leu Leu Glu Thr Ile Ile Leu Gly						
	130		135		140	
Lys Gln Tyr Ser Leu Asn Ile Ile Leu Ser Val Phe Ala Ile Ile Leu						
145		150		155		160
Gly Ala Phe Ile Ala Ala Gly Ser Asp Leu Ala Phe Asn Leu Glu Gly						
	165		170		175	
Tyr Ile Phe Val Phe Leu Asn Asp Ile Phe Thr Ala Ala Asn Gly Val						
	180		185		190	
Tyr Thr Lys Gln Lys Met Asp Pro Lys Glu Leu Gly Lys Tyr Gly Val						
	195		200		205	
Leu Phe Tyr Asn Ala Cys Phe Met Ile Ile Pro Thr Leu Ile Ile Ser						
	210		215		220	
Val Ser Thr Gly Asp Leu Gln Gln Ala Thr Glu Phe Asn Gln Trp Lys						
225		230		235		240
Asn Val Val Phe Ile Leu Gln Phe Leu Leu Ser Cys Phe Leu Gly Phe						
	245		250		255	
Leu Leu Met Tyr Ser Thr Val Leu Cys Ser Tyr Tyr Asn Ser Ala Leu						
	260		265		270	
Thr Thr Ala Val Val Gly Ala Ile Lys Asn Val Ser Val Ala Tyr Ile						
	275		280		285	
Gly Ile Leu Ile Gly Gly Asp Tyr Ile Phe Ser Leu Leu Asn Phe Val						
	290		295		300	
Gly Leu Asn Ile Cys Met Ala Gly Gly Leu Arg Tyr Ser Phe Leu Thr						
305		310		315		320
Leu Ser Ser Gln Leu Lys Pro Lys Pro Val Gly Glu Glu Asn Ile Cys						
	325		330		335	
Leu Asp Leu Lys Ser						

340

&lt;210&gt; 1052

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1052

Pro Ala Ala Arg Ala Thr Asp Ser Val Ser Ala Ile Phe Asp Lys  
1 5 10 15

Gly Lys Lys Val Arg Glu Ser Phe Gln Ala Leu Gly Arg Ile Ile Phe  
20 25 30

Phe Gln Asp Ala Val Phe Arg Thr Phe Val Ile Lys His Thr Ala Gln  
35 40 45

Val Ile Thr Gly Ile Asp Ser Asp Ile Arg His Leu Ser Leu Ala Leu  
50 55 60

Leu Lys Asn Gly Gly Asn Val Ile Ser Trp Ala Gly Val Gly Cys Asn  
65 70 75 80

Pro Glu Val Pro Leu  
85

&lt;210&gt; 1053

&lt;211&gt; 724

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (680)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1053

Val Asp Ser Glu Ser Ala Ser Val Val Gly Lys Arg Pro Pro Phe His  
1 5 10 15

Gly Thr Pro Ser Thr Met Ser Ser Pro Ala Ser Thr Pro Ser Arg Arg  
20 25 30

Gly Ser Arg Arg Gly Arg Ala Thr Pro Ala Gln Thr Pro Arg Ser Glu  
                   35                                  40                                  45

Asp Ala Arg Ser Ser Pro Ser Gln Arg Arg Arg Gly Glu Asp Ser Thr  
           50                                  55                                  60

Ser Thr Gly Glu Leu Gln Pro Met Pro Thr Ser Pro Gly Val Asp Leu  
       65                                  70                                  75                                  80

Gln Ser Pro Ala Ala Gln Xaa Val Leu Phe Ser Ser Pro Pro Gln Met  
                                   85                                  90                                  95

His Ser Ser Ala Ile Pro Leu Asp Phe Asp Val Ser Ser Pro Leu Thr  
                   100                                  105                                  110

Tyr Gly Thr Pro Ser Ser Arg Val Glu Gly Thr Pro Arg Ser Gly Val  
           115                                  120                                  125

Arg Gly Thr Pro Val Arg Gln Arg Pro Asp Leu Gly Ser Ala Gln Lys  
       130                                  135                                  140

Gly Leu Gln Val Asp Leu Gln Ser Asp Gly Ala Ala Ala Glu Asp Ile  
   145                                  150                                  155                                  160

Val Ala Ser Glu Gln Ser Leu Gly Gln Lys Leu Val Ile Trp Gly Thr  
                   165                                  170                                  175

Asp Val Asn Val Ala Ala Cys Lys Glu Asn Phe Gln Arg Phe Leu Gln  
                   180                                  185                                  190

Arg Phe Ile Asp Pro Leu Ala Lys Glu Glu Glu Asn Val Gly Ile Asp  
       195                                  200                                  205

Ile Thr Glu Pro Leu Tyr Met Gln Arg Leu Gly Glu Ile Asn Val Ile  
       210                                  215                                  220

Gly Glu Pro Phe Leu Asn Val Asn Cys Glu His Ile Lys Ser Phe Asp  
   225                                  230                                  235                                  240

Lys Asn Leu Tyr Arg Gln Leu Ile Ser Tyr Pro Gln Glu Val Ile Pro  
                   245                                  250                                  255

Thr Phe Asp Met Ala Val Asn Glu Ile Phe Phe Asp Arg Tyr Pro Asp  
           260                                  265                                  270

Ser Ile Leu Glu His Gln Ile Gln Val Arg Pro Phe Asn Ala Leu Lys  
       275                                  280                                  285

Thr Lys Asn Met Arg Asn Leu Asn Pro Glu Asp Ile Asp Gln Leu Ile  
       290                                  295                                  300

Thr Ile Ser Gly Met Val Ile Arg Thr Ser Gln Leu Ile Pro Glu Met  
305 310 315 320

Gln Glu Ala Phe Phe Gln Cys Gln Val Cys Ala His Thr Thr Arg Val  
325 330 335

Glu Met Asp Arg Gly Arg Ile Ala Glu Pro Ser Val Cys Gly Arg Cys  
340 345 350

His Thr Thr His Ser Met Ala Leu Ile His Asn Arg Ser Leu Phe Ser  
355 360 365

Asp Lys Gln Met Ile Lys Leu Gln Glu Ser Pro Glu Asp Met Pro Ala  
370 375 380

Gly Gln Thr Pro His Thr Val Ile Leu Phe Ala His Asn Asp Leu Val  
385 390 395 400

Asp Lys Val Gln Pro Gly Asp Arg Val Asn Val Thr Gly Ile Tyr Arg  
405 410 415

Ala Val Pro Ile Arg Val Asn Pro Arg Val Ser Asn Val Lys Ser Val  
420 425 430

Tyr Lys Thr His Ile Asp Val Ile His Tyr Arg Lys Thr Asp Ala Lys  
435 440 445

Arg Leu His Gly Leu Asp Glu Glu Ala Glu Gln Lys Leu Phe Ser Glu  
450 455 460

Lys Arg Val Glu Leu Leu Lys Glu Leu Ser Arg Lys Pro Asp Ile Tyr  
465 470 475 480

Glu Arg Leu Ala Ser Ala Leu Ala Pro Ser Ile Tyr Glu His Glu Asp  
485 490 495

Ile Lys Lys Gly Ile Leu Leu Gln Leu Phe Gly Gly Thr Arg Lys Asp  
500 505 510

Phe Ser His Thr Gly Arg Gly Lys Phe Arg Ala Glu Ile Asn Ile Leu  
515 520 525

Leu Cys Gly Asp Pro Gly Thr Ser Lys Ser Gln Leu Leu Gln Tyr Val  
530 535 540

Tyr Asn Leu Val Pro Arg Gly Gln Tyr Thr Ser Gly Lys Gly Ser Ser  
545 550 555 560

Ala Val Gly Leu Thr Ala Tyr Val Met Lys Asp Pro Glu Thr Arg Gln  
565 570 575

Leu Val Leu Gln Thr Gly Ala Leu Val Leu Ser Asp Asn Gly Ile Cys  
                   580                                  585                                  590  
 Cys Ile Asp Glu Phe Asp Lys Met Asn Glu Ser Thr Arg Ser Val Leu  
                   595                                  600                                  605  
 His Glu Val Met Glu Gln Gln Thr Leu Ser Ile Ala Lys Ala Gly Ile  
                   610                                  615                                  620  
 Ile Cys Gln Leu Asn Ala Arg Thr Ser Val Leu Ala Ala Ala Asn Pro  
                   625                                  630                                  635                                  640  
 Ile Glu Ser Gln Trp Asn Pro Lys Lys Thr Thr Ile Glu Asn Ile Gln  
                                   645                                  650                                  655  
 Leu Pro His Thr Leu Leu Ser Arg Phe Asp Leu Ile Phe Leu Met Leu  
                   660                                  665                                  670  
 Asp Pro Gln Asp Glu Ala Tyr Xaa Gln Ala Ser Gly Ser Pro Pro Gly  
                   675                                  680                                  685  
 Arg Thr Val Leu Pro Glu Arg Gly Ala Gly Arg Gly Gly Ala Pro Gly  
                   690                                  695                                  700  
 His Gly Gly Ala Lys Gly Leu His Cys Leu Arg Ala Gln His His His  
                   705                                  710                                  715                                  720  
 Ala Ala Ala Lys

&lt;210&gt; 1054

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1054

Leu Leu Cys Phe Tyr Glu Pro Arg Cys Ser Arg Lys Trp Xaa Gln Arg  
   1                                  5                                  10                                  15

His Ala Ser Xaa Arg Ser Pro Tyr Pro Ala Phe Val Pro Ala Val Pro  
                   20                                  25                                  30

Lys Ser Leu Ala Arg Ile Leu His Leu Gly Lys Lys Val Leu Asn Ala  
                   35                                  40                                  45

Asn Val Thr Pro  
                   50

<210> 1055

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1055

Arg Arg Gly Phe Gly Gly Val Arg Ala Ser Glu Ala Cys Gly Leu Arg  
   1                                  5                                  10                                  15

Arg Arg Ala Gly Phe Gly Gly Val Arg Ala Ser Gly Ala Met Gly Thr  
                   20                                  25                                  30

Pro Pro Gly Leu Gln Thr Asp Cys Glu Ala Leu Leu Ser Arg Phe Gln  
                   35                                  40                                  45

Glu Thr Asp Ser Val Arg Phe Glu Asp Phe Thr Glu Leu Trp Arg Asn  
   50                                  55                                  60

Met Lys Phe Gly Thr Ile Phe Cys Gly Arg Met Arg Asn Leu Glu Lys  
   65                                  70                                  75                                  80

Asn Met Phe Thr Lys Glu Ala Leu Ala Leu Ala Trp Arg Tyr Phe Leu  
                   85                                  90                                  95

Pro Pro Tyr Thr Phe Gln Ile Arg Val Gly Ala Leu Tyr Leu Leu Tyr  
                   100                                  105                                  110

Gly Leu Tyr Asn Thr Gln Leu Cys Gln Pro Lys Gln Lys Ile Arg Val  
                   115                                  120                                  125

Ala Leu Lys Asp Trp Asp Glu Val Leu Lys Phe Gln Gln Asp Leu Val  
 130 135 140

Asn Ala Gln His Phe Asp Ala Ala Tyr Ile Phe Arg Lys Leu Arg Leu  
 145 150 155 160

Asp Arg Ala Phe His Phe Thr Ala Met Pro Lys Leu Leu Ser Tyr Arg  
 165 170 175

Met Lys Lys Lys Ile His Arg Ala Glu Val Thr Glu Glu Phe Lys Asp  
 180 185 190

Pro Ser Asp Arg Val Met Lys Leu Ile Thr Ser Asp Xaa Leu Xaa Glu  
 195 200 205

Met Leu Asn Gly His Asp His Tyr Gln Asn Met Asn Met  
 210 215 220

<210> 1056  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1056  
 Lys Ala Val Arg Ser Met Leu Leu Ser Ser Leu Arg Glu Asn Phe Leu  
 1 5 10 15

Asn Asn Thr Arg Lys Arg Lys Ile Gly Leu Phe Ser Leu Leu Val Leu  
 20 25 30

Ser Ile Leu Ser Ser Leu Gln Gly Arg Val Ala Lys Leu Trp Gly Leu  
 35 40 45

Asn Pro Glu Gly Gly Leu Ser Gly His Gln Thr  
 50 55

<210> 1057  
 <211> 193  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (192)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1057

Ser Leu Pro Trp Arg Val Pro Arg Ser Met Glu Thr Phe Asp Pro Thr  
1 5 10 15

Glu Leu Pro Glu Leu Leu Lys Leu Tyr Tyr Arg Arg Leu Phe Pro Tyr  
20 25 30

Ser Gln Tyr Tyr Arg Trp Leu Asn Tyr Gly Gly Val Ile Lys Asn Tyr  
35 40 45

Phe Gln His Arg Glu Phe Ser Phe Thr Leu Lys Asp Asp Ile Tyr Ile  
50 55 60

Arg Tyr Gln Ser Phe Asn Asn Gln Ser Asp Leu Glu Lys Glu Met Gln  
65 70 75 80

Lys Met Asn Pro Tyr Lys Ile Asp Ile Gly Ala Val Tyr Ser His Arg  
85 90 95

Pro Asn Gln His Asn Thr Val Lys Leu Gly Ala Phe Gln Ala Gln Glu  
100 105 110

Lys Glu Leu Val Phe Asp Ile Asp Met Thr Asp Tyr Asp Asp Val Arg  
115 120 125

Arg Cys Cys Ser Ser Ala Asp Ile Cys Pro Lys Cys Trp Thr Leu Met  
130 135 140

Thr Met Ala Ile Arg Ile Ile Asp Arg Ala Leu Lys Glu Asp Phe Gly  
145 150 155 160

Phe Lys His Arg Leu Trp Val Tyr Ser Gly Arg Arg Gly Val His Cys  
165 170 175

Trp Val Cys Asp Glu Ser Val Arg Asn Cys Leu Leu Gln Tyr Val Xaa  
180 185 190

Gly

&lt;210&gt; 1058

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1058

Asp Glu Asp Asn Glu Lys Glu Lys Arg Asp Ser Leu Gly Asn Glu Glu  
 1 5 10 15

Ser Val Asp Lys Thr Ala Cys Glu Cys Val Arg Ser Pro Arg Glu Ser  
 20 25 30

Leu Asp Asp Leu Phe Gln Ile Cys Ser Pro Cys Ala Ile Ala Ser Gly  
 35 40 45

Leu Arg Xaa Thr Trp Leu Asn  
 50 55

&lt;210&gt; 1059

&lt;211&gt; 205

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1059

Arg Val Ser Leu Val Val Thr Glu Thr Val Asp Ala Gly Leu Phe Gly  
 1 5 10 15

Glu Gly Ile Val Glu Ser Leu Ile His Ala Trp Glu His Leu Leu Leu  
 20 25 30

Gln Pro Lys Thr Lys Gly Glu Ser Ala Asn Cys Glu Lys Tyr Gly Lys  
 35 40 45

Val Ile Pro Ala Ser Ala Val Ile Phe Gly Met Ala Val Glu Cys Ala  
 50 55 60

Glu Ile Arg Arg His His Arg Val Gly Ile Lys Asp Ile Ala Gly Ile  
 65 70 75 80

His Leu Pro Thr Asn Val Lys Phe Gln Ser Pro Ala Tyr Ser Ser Val  
 85 90 95

Asp Thr Glu Glu Thr Ile Glu Pro Tyr Thr Thr Glu Lys Met Ser Arg

100	105	110
Val Pro Gly Gly Tyr Leu Ala Leu Thr Glu Cys Phe Glu Ile Met Xaa		
115	120	125
Val Asp Phe Asn Asn Leu Gln Glu Leu Lys Ser Leu Ala Thr Lys Lys		
130	135	140
Pro Gly Lys Ile Gly Ile Pro Val Ile Lys Glu Gly Ile Leu Asp Ala		
145	150	155
Val Val Val Trp Phe Val Leu Gln Leu Asp Asp Glu His Ser Leu Ser		
165	170	175
Thr Ser Pro Asn Glu Glu Thr Cys Trp Glu Gln Ala Val Tyr Pro Val		
180	185	190
His Asp Leu Ala Asp Tyr Arg Ile Lys Arg Gly Asp Xaa		
195	200	205

&lt;210&gt; 1060

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1060

Pro Val Lys Val Trp Glu Gly Leu Arg Glu Lys Arg Ser Val Phe Ser		
1	5	10
Ser Gly Ser Gly Ser Cys Lys Leu His Leu Pro Gly Ala Leu Pro Leu		
20	25	30
Leu Tyr Pro Phe Ala Val Cys Pro Pro Pro Pro Gly Ser Trp Ser Pro		
35	40	45
Ser Cys Ser Asn Ser Phe Cys Ser Tyr Ser Arg Gly Leu Leu Gly Leu		
50	55	60
Leu Ser Pro Val Arg Leu Gly Xaa Ala Leu Gly Ser Trp Val Ser Ser		
65	70	75
Thr Asp His Ala Arg Pro Leu Arg Pro Gln Ile Ile		
85	90	

<210> 1061  
<211> 295  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (243)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (277)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1061  
Ala Glu Ala Ile Pro Leu Ala Asp Gln Pro His Leu Leu Gln Pro Asn  
1 5 10 15

Ala Arg Lys Glu Asp Leu Phe Gly Arg Pro Ser Gln Gly Leu Tyr Ser  
20 25 30

Ser Ser Ala Ser Ser Gly Lys Cys Leu Met Glu Val Thr Val Asp Arg  
35 40 45

Asn Cys Leu Glu Val Leu Pro Thr Lys Met Ser Tyr Ala Ala Asn Leu  
50 55 60

Lys Asn Val Met Asn Met Gln Asn Arg Gln Lys Lys Glu Gly Glu Glu  
65 70 75 80

Gln Pro Val Leu Pro Glu Glu Thr Glu Ser Ser Lys Pro Gly Pro Ser  
85 90 95

Ala His Asp Leu Ala Ala Gln Leu Lys Ser Ser Leu Leu Ala Glu Ile  
100 105 110

Gly Leu Thr Glu Ser Glu Gly Pro Pro Leu Thr Ser Phe Arg Pro Gln  
115 120 125

Cys Ser Phe Met Gly Met Val Ile Ser His Asp Met Leu Leu Gly Arg  
130 135 140

Trp Arg Leu Ser Leu Glu Leu Phe Gly Arg Val Phe Met Glu Asp Val  
145 150 155 160

Gly Ala Glu Pro Gly Ser Ile Leu Thr Glu Leu Gly Gly Phe Glu Val  
165 170 175

Lys Glu Ser Lys Phe Arg Arg Glu Met Glu Lys Leu Arg Asn Gln Gln  
                   180                                  185                                  190  
 Ser Arg Asp Leu Ser Leu Glu Val Asp Arg Asp Arg Asp Leu Leu Ile  
                   195                                  200                                  205  
 Gln Gln Thr Met Arg Gln Leu Asn Asn His Phe Gly Arg Arg Cys Ala  
                   210                                  215                                  220  
 Thr Thr Pro Met Ala Val His Arg Val Lys Val Thr Phe Lys Asp Glu  
                   225                                  230                                  235                                  240  
 Pro Gly Xaa Gly Ser Gly Val Ala Arg Ser Phe Tyr Thr Ala Ile Ala  
                                   245                                  250                                  255  
 Gln Ala Phe Leu Ser Asn Glu Lys Leu Pro Asn Leu Glu Cys Ile Pro  
                   260                                  265                                  270  
 Lys Lys Lys Phe Xaa Pro Pro Gln Lys Pro Lys Lys Lys Gly Pro Thr  
                   275                                  280                                  285  
 Pro Asn His Gln Arg Val Phe  
                   290                                  295

<210> 1062  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 1062  
 Gly Glu Glu His Ile Pro Gln Glu Ala Pro Gln Gly Ala Glu Thr Ala  
   1                                  5                                  10                                  15  
 Leu Ile Pro Ala Asp Ile Thr Glu Lys Gln Gln Ser Leu Phe Asn Phe  
                   20                                  25                                  30  
 Val Thr Met  
                   35

<210> 1063  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<400> 1063  
 Gln Tyr Phe Met Thr Met Asp Gly Asp Ser Ser Thr Thr Asp Ala Ser  
   1                                  5                                  10                                  15

Gln Leu Gly Ile Ser Ala Asp Tyr Ile Gly Gly Ser His Tyr Val Ile  
                   20                                  25                                  30  
 Gln Pro His Asp Asp Thr Glu Asp Ser Met Asn Asp His Glu Asp Thr  
                   35                                  40                                  45  
 Asn Gly Ser Lys Glu Ser Phe Arg Glu Gln Asp Ile Tyr Leu Pro Ile  
                   50                                  55                                  60  
 Ala Asn Val Ala Arg Ile Met Lys Asn Ala Ile Pro Gln Thr Gly Lys  
                   65                                  70                                  75                                  80  
 Ile Ala Lys Asp Ala Lys Glu Cys Val Gln Glu Cys Val Ser Glu Phe  
                                   85                                  90                                  95  
 Ile Ser Phe Ile Thr Ser Glu Ala Ser Glu Arg Cys His Gln Glu Lys  
                   100                                  105                                  110  
 Arg Lys Thr Ile Asn Gly Glu Asp Ile Leu Phe Ala Met Ser Thr Leu  
                   115                                  120                                  125  
 Gly Phe Asp Ser Tyr Val Glu Pro Leu Lys Leu Tyr Leu Gln Lys Phe  
                   130                                  135                                  140  
 Arg Glu Ala Met Lys Gly Glu Lys Gly Ile Gly Gly Ala Val Thr Ala  
                   145                                  150                                  155                                  160  
 Thr Asp Gly Leu Ser Glu Glu Leu Thr Glu Glu Ala Phe Thr Asn Gln  
                                   165                                  170                                  175  
 Leu Pro Ala Gly Leu Ile Thr Thr Asp Gly Gln Gln Gln Asn Val Met  
                   180                                  185                                  190  
 Val Tyr Thr Thr Ser Tyr Gln Gln Ile Ser Gly Val Gln Gln Ile Gln  
                   195                                  200                                  205  
 Phe Ser  
                   210

&lt;210&gt; 1064

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (216)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (315)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (326)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1064

Leu	Arg	Pro	Ser	Val	Tyr	Pro	Val	Ala	Ser	Ser	Leu	Pro	Val	Pro	Asp
1				5					10					15	

Leu	Ile	Leu	Arg	Gln	Arg	Leu	Leu	Gln	Asp	Pro	Val	Ala	Arg	Pro	Gln
		20						25					30		

Ala	Met	Ala	Gly	Pro	Phe	Ser	Arg	Leu	Leu	Ser	Ala	Arg	Pro	Gly	Leu
		35					40					45			

Arg	Leu	Leu	Ala	Leu	Ala	Gly	Ala	Gly	Ser	Leu	Ala	Ala	Gly	Phe	Leu
	50					55					60				

Leu	Arg	Pro	Glu	Pro	Val	Arg	Ala	Ala	Ser	Glu	Arg	Arg	Arg	Leu	Tyr
65					70					75					80

Pro	Pro	Ser	Ala	Glu	Tyr	Pro	Asp	Leu	Arg	Lys	His	Asn	Asn	Cys	Met
				85					90					95	

Ala	Ser	His	Leu	Thr	Pro	Ala	Val	Tyr	Ala	Arg	Leu	Cys	Asp	Lys	Thr
			100					105					110		

Thr	Pro	Thr	Gly	Trp	Thr	Leu	Asp	Gln	Cys	Ile	Gln	Thr	Gly	Val	Asp
		115					120					125			

Asn	Pro	Gly	His	Pro	Phe	Ile	Lys	Thr	Val	Gly	Met	Val	Ala	Gly	Asp
	130					135					140				

Glu	Glu	Thr	Tyr	Glu	Val	Phe	Ala	Asp	Leu	Phe	Asp	Pro	Val	Ile	Gln
145					150					155				160	

Glu	Arg	His	Asn	Gly	Tyr	Asp	Pro	Arg	Thr	Met	Lys	His	Thr	Thr	Asp
			165						170					175	

Leu	Asp	Ala	Ser	Lys	Ile	Arg	Ser	Gly	Tyr	Phe	Asp	Glu	Arg	Tyr	Val
		180						185					190		

Leu	Ser	Ser	Arg	Val	Arg	Thr	Gly	Arg	Ser	Ile	Arg	Gly	Leu	Ser	Leu
			195				200					205			

:
:
:
:

Pro Pro Ala Cys Thr Arg Ala Xaa Arg Arg Glu Val Glu Arg Val Val  
 210 215 220  
 Val Asp Ala Leu Ser Gly Leu Lys Gly Asp Leu Ala Gly Arg Tyr Tyr  
 225 230 235 240  
 Arg Leu Ser Glu Met Thr Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp  
 245 250 255  
 His Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Thr Ala Ala Gly  
 260 265 270  
 Met Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asn Glu  
 275 280 285  
 Lys Ser Phe Leu Ile Trp Val Asn Glu Glu Asp His Thr Arg Val Ile  
 290 295 300  
 Ser Met Glu Lys Gly Gly Asn Met Lys Arg Xaa Phe Glu Arg Ser Ala  
 305 310 315 320  
 Glu Ala Ser Lys Arg Xaa Arg Asp Tyr Val Gly Asp  
 325 330

&lt;210&gt; 1065

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1065

Ser Phe Phe Phe Lys Val Ser Arg Ser Glu Ala Ser His Arg Met Ile  
 1 5 10 15  
 Leu Leu Asn Asn Ser His Lys Leu Leu Ala Leu Tyr Lys Ser Leu Ala  
 20 25 30  
 Arg Ser Ile Pro Glu Ser Leu Lys Val Tyr Gly Ser Val Tyr His Ile  
 35 40 45  
 Asn His Gly Asn Pro Phe Asn Met Glu Val Leu Val Asp Ser Trp Pro  
 50 55 60  
 Glu Tyr Gln Met Val Ile Ile Arg Pro Gln Lys Gln Glu Met Thr Asp  
 65 70 75 80  
 Asp Met Asp Ser Tyr Thr Asn Val Tyr Arg Met Phe Ser Lys Glu Pro  
 85 90 95  
 Gln Lys Ser Glu Glu Val Leu Lys Asn Cys Glu Ile Val Asn Trp Lys

100	105	110
Gln Arg Leu Gln Ile Gln Gly Leu Gln Glu Ser Leu Gly Glu Gly Ile		
115	120	125
Arg Val Ala Thr Phe Ser Lys Ser Val Lys Val Glu His Ser Arg Ala		
130	135	140
Leu Leu Leu Val Thr Glu Asp Ile Leu Lys Leu Asn Ala Ser Ser Lys		
145	150	155
Ser Lys Leu Gly Ser Trp Ala Glu Thr Gly His Pro Asp Asp Glu Phe		
165	170	175
Glu Ser Glu Thr Pro Asn Phe Lys Tyr Ala Gln Leu Asp Val Ser Tyr		
180	185	190
Ser Gly Leu Val Asn Asp Asn Trp Lys Arg Gly Lys Asn Glu Arg Ser		
195	200	205
Leu His Tyr Ile Lys Arg Cys Ile Glu Asp Leu Pro Ala Ala Cys Met		
210	215	220
Leu Gly Pro Glu Glu Ile Pro Val Ser Trp Val Thr Met Gly Pro Phe		
225	230	235
240		

Leu

&lt;210&gt; 1066

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1066

Glu Val Leu Arg Asp Cys Xaa Ser Pro Asn Ser Ile Ser Ile Met Gly
1 5 10 15

Leu Asn Thr Ser Arg Val Ala Ile Thr Leu Lys Pro Gln Asp Pro Met



20 25 30  
 Glu Gln Asn Val Ala Glu Leu Leu Gln Phe Leu Leu Val Lys Asp Gln  
 35 40 45  
 Ser Lys Tyr Pro Ile Arg Glu Ser Glu Met Arg Glu Tyr Ile Val Lys  
 50 55 60  
 Glu Tyr Arg Asn Gln Phe Pro Glu Ile Leu Arg Arg Ala Ala Ala His  
 65 70 75 80  
 Leu Glu Cys Ile Phe Arg Phe Glu Leu Arg Glu Leu Asp Pro Glu Ala  
 85 90 95  
 His Thr Tyr Ile Leu Leu Asn Lys Leu Gly Pro Val Pro Phe Glu Gly  
 100 105 110  
 Leu Glu Glu Ser Pro Asn Gly Pro Lys Met Gly Leu Leu Met Met Ile  
 115 120 125  
 Leu Xaa Gln Ile Phe Leu Asn Gly Asn Gln Ala Lys Glu Ala  
 130 135 140

&lt;210&gt; 1067

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

Thr Arg Ser Ala Gly Ser Arg Gly Gly Ala Trp Thr Pro Ala Trp Gln  
 1 5 10 15  
 Val Pro Pro Arg Glu Arg Gly Ser Arg Cys Ile Ser Ala Ala Phe Ile  
 20 25 30  
 Thr Asp Leu Gly Leu His Gln Gly Thr Cys Arg Thr Ala Leu Lys Thr  
 35 40 45  
 Ala Glu Ser Glu Glu Pro Ser Leu Gly Pro Gly Arg Pro Ala Val Gln  
 50 55 60  
 Leu Ala Ser Arg Ile Pro Leu Pro Ala Pro Ala Asp Asp Leu Phe Trp  
 65 70 75 80  
 Arg Val Glu Asn Val Leu Gly Phe Lys Val Gln Ser Gly Phe Leu Ser  
 85 90 95  
 Ile His Tyr Ser Cys Leu His Ser Thr Asn Lys Ser Trp Glu Arg  
 100 105 110

<210> 1068  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1068  
Leu Leu Tyr Gln Ser Ile Glu Asp Ser Ser Tyr Leu Leu Pro Val Ala  
1 5 10 15  
Gln Phe Arg Phe Trp Glu Xaa Ala Glu Gln Val Lys His Arg Lys Leu  
20 25 30  
Lys Arg Arg Asn Pro His Phe Gly Pro Ile Phe Leu Leu Asp Tyr Phe  
35 40 45  
Leu Ile Ser Ile Leu Pro Ile Val Leu Met Phe  
50 55

<210> 1069  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1069  
Cys Leu Ala Val Arg Arg His Glu Leu Arg Thr Val His His Gly Ser  
1 5 10 15  
Glu Arg Xaa Arg Asn Pro Ser Pro Ile Arg Thr Met Thr Asp Ile Leu  
20 25 30  
Ser Arg Gly Pro Lys Ser Met Ile Ser Leu Ala Gly Gly Leu Pro Asn  
35 40 45  
Pro Asn Met Phe Pro Phe Lys  
50 55

<210> 1070

<211> 369

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1070

Asp Arg Ser Phe Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys  
1 5 10 15

Val Gly Ala Lys Ala Ala Gln Gln Asp Ser Xaa Ser Xaa Gly Glu Ala  
20 25 30

Leu Gly Gly Xaa Pro Met Val Ala Xaa Phe Gln Asp Asp Val Asp Leu  
35 40 45

Glu Asp Gln Pro Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro  
50 55 60

Ser Gln Asp Ile Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala  
65 70 75 80

Pro Thr Lys Gly Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu  
85 90 95

Thr Lys Trp Ser Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala  
 100 105 110

Pro Thr Arg Thr Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg  
 115 120 125

Thr Gly Pro Glu Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu  
 130 135 140

Pro Gly Lys Gly Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly  
 145 150 155 160

Pro Ile Ala Ala Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe  
 165 170 175

Glu Ser Glu Gly Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val  
 180 185 190

Arg Asp Asp Pro Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu  
 195 200 205

Pro Pro Pro Pro Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn  
 210 215 220

Asp Ser Asp Leu Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu  
 225 230 235 240

Ser Ser Glu Glu Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys Lys  
 245 250 255

Lys Lys Lys Lys Lys Gly Lys Glu Glu Glu Glu Lys Ala Ala Lys Lys  
 260 265 270

Lys Ser Lys His Lys Lys Ser Lys Asp Lys Glu Glu Gly Lys Glu Glu  
 275 280 285

Arg Arg Arg Arg Xaa Gln Arg Pro Pro Arg Ser Arg Glu Arg Thr Ala  
 290 295 300

Ala Asp Glu Leu Glu Ala Phe Leu Gly Gly Gly Ala Arg Ala Ala Ala  
 305 310 315 320

Thr Leu Gly Val Ala Thr Thr Arg Ser Ser Arg Pro Ala Trp Ala Val  
 325 330 335

Ala Ala Leu Gly Arg Gly Ala Cys Leu Ser Leu Pro Gly Glu Ala Phe  
 340 345 350

Ala Ser Val Pro Ser Pro Leu Pro Leu Pro Arg Gly Cys Arg Val Arg  
 355 360 365

Phe

&lt;210&gt; 1071

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (179)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (202)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (208)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1071

Glu Arg Leu Tyr Pro Ala Val Val Val Gly Gly Arg Ala Val Glu Gln  
1 5 10 15

Gln His Arg Arg Gly Ser Arg Glu Ala Gly Ser Ala Arg Ala Glu Met  
20 25 30

Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg Arg  
35 40 45

Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe Phe  
50 55 60

Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu Ala  
65 70 75 80

Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu Leu  
                                     85                                    90                                    95  
 Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile Pro  
                                     100                                    105                                    110  
 His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile Gln  
                                     115                                    120                                    125  
 Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His Tyr  
                                     130                                    135                                    140  
 Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile Ser  
                                     145                                    150                                    155                                    160  
 Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe Glu  
                                     165                                    170                                    175  
 Pro Pro Xaa Xaa Gly Tyr Glu Asn Gly Ser Asp Ile Xaa Pro Pro Phe  
                                     180                                    185                                    190  
 Ser Ala Phe Ser Pro Gln Gly Met Pro Xaa Gly Asp Leu Val Tyr Xaa  
                                     195                                    200                                    205

Asn

<210> 1072

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072

Leu Gln Gly Leu Leu Ile Asn Pro Leu Thr Leu Ser Pro Ser Asn Thr

1                      5                      10                      15  
 Val Ser Gln Ser Leu Phe Phe Trp Leu Gly Phe Tyr Ile Lys Leu Ser  
                     20                      25                      30  
 Ile Leu Ser Asn Asp Leu Ser Leu Leu Pro Phe Leu Leu His Ile Pro  
                     35                      40                      45  
 Ile Lys Thr Phe Phe Val Phe Asn Ser Cys His Leu Asp Ser Arg Thr  
                     50                      55                      60  
 Ser Ser Ile Pro His Val Cys Ser Leu Leu Cys Gln Pro Arg Pro Phe  
                     65                      70                      75                      80  
 Leu Tyr Pro Pro Ala Trp Xaa Cys Cys Pro Leu Cys Ser Xaa Leu Thr  
                     85                      90                      95  
 Arg Tyr Lys Glu His Glu Asp Gly Tyr Met Arg Leu Gln Leu Val Arg  
                     100                      105                      110  
 Xaa Glu Ser Val Glu Leu Thr Gln Gln Leu Leu Arg Gln Pro Gln Glu  
                     115                      120                      125  
 Gly Ser Gly Trp Glu Arg Arg  
                     130                      135

&lt;210&gt; 1073

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1073

Pro Ser Asp Val Asn Val Met Ala Glu Ser Leu Lys Asp Met Glu Ala  
 1                      5                      10                      15

Asp Ala Gln Lys Leu Tyr Gln Leu Ile Trp Arg Gln Phe Val Ala Cys  
 20                      25                      30

Gln Met Thr Pro Ala Lys Tyr Asp Ser Thr Thr Leu Thr Val Gly Xaa

35 40 45

Gly Asp Phe Arg Leu Lys Ala Arg Gly Arg Ile Leu Arg Phe Asp Gly  
50 55 60

Trp Thr Lys Val Met Pro Ala Leu Arg Lys Gly Asp Glu Asp Arg Ile  
65 70 75 80

Leu Pro Ala Val Asn Lys Gly Asp Ala Leu Thr Leu Val Glu Leu Thr  
85 90 95

Pro Ala Gln His Phe Thr Lys Pro Pro Ala Arg Phe Ser Glu Ala Ser  
100 105 110

Leu Val Lys Glu Leu Glu Lys Arg Gly Ile Gly Arg Pro Ser Xaa Tyr  
115 120 125

Ala Ser Ile Ile Ser Thr Ile  
130 135

<210> 1074

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (372)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1074

Arg Asn Lys Arg Glu Glu Lys Lys Ala Gln Asn Ser Glu Xaa Arg Met  
1 5 10 15

Lys Arg Ala Gln Xaa Tyr Asp Ser Ser Phe Pro Asn Trp Glu Phe Ala  
20 25 30

Arg Met Ile Lys Glu Phe Arg Ala Thr Leu Glu Cys His Pro Leu Thr  
35 40 45

Met Thr Asp Pro Ile Glu Glu His Arg Ile Cys Val Cys Val Arg Lys  
50 55 60

Arg Pro Leu Asn Lys Gln Glu Leu Ala Lys Lys Glu Ile Asp Val Ile  
65 70 75 80

Ser Ile Pro Ser Lys Cys Leu Leu Leu Val His Glu Pro Lys Leu Lys  
85 90 95

Val Asp Leu Thr Lys Tyr Leu Glu Asn Gln Ala Phe Cys Phe Asp Phe  
100 105 110

Ala Phe Asp Glu Thr Ala Ser Asn Glu Val Val Tyr Arg Phe Thr Ala  
115 120 125

Arg Pro Leu Val Gln Thr Ile Phe Glu Gly Gly Lys Ala Thr Cys Phe  
130 135 140

Ala Tyr Gly Gln Thr Gly Ser Gly Lys Thr His Thr Met Gly Gly Asp  
145 150 155 160

Leu Ser Gly Lys Ala Gln Asn Ala Ser Lys Gly Ile Tyr Ala Met Ala  
165 170 175

Xaa Arg Asp Val Phe Leu Leu Lys Asn Gln Pro Cys Tyr Arg Lys Leu  
180 185 190

Gly Leu Glu Val Tyr Val Thr Phe Phe Glu Ile Tyr Asn Gly Lys Leu  
195 200 205

Phe Asp Leu Leu Asn Lys Lys Ala Lys Leu Arg Val Leu Glu Asp Gly  
210 215 220

Lys Gln Gln Val Gln Val Val Gly Leu Gln Glu His Leu Val Asn Ser  
225 230 235 240

Ala Asp Asp Val Ile Lys Met Xaa Asp Met Gly Ser Ala Cys Arg Thr  
245 250 255

Ser Gly Gln Thr Phe Ala Asn Ser Asn Ser Ser Arg Ser His Ala Cys  
260 265 270

Phe Gln Ile Ile Leu Arg Ala Lys Gly Arg Met His Gly Lys Phe Ser  
275 280 285

Leu Val Asp Leu Ala Gly Asn Glu Arg Gly Ala Xaa Thr Ser Ser Ala  
290 295 300

Asp Arg Gln Thr Arg Met Glu Gly Ala Glu Ile Asn Lys Ser Leu Leu  
305 310 315 320

Ala Leu Lys Glu Cys Ile Arg Ala Leu Gly Gln Asn Lys Ala His Thr  
325 330 335

Pro Phe Arg Glu Ser Lys Leu Thr Gln Val Leu Arg Asp Ser Phe Ile  
340 345 350

Gly Glu Asn Ser Arg Thr Cys Met Ile Ala Thr Ile Ser Pro Gly Ile  
355 360 365

Ser Ser Cys Xaa Ile Tyr Phe Lys His Pro Glu Ile Cys Arg Gln Gly  
370 375 380

Gln Gly Ala Glu Pro Pro Gln Trp Ala Gln Trp Arg Ala Val Asp Ser  
385 390 395 400

Asn Gly Asn Arg Arg Asp Gly Ser Leu Leu  
405 410

<210> 1075

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1075

Leu Pro Phe Phe Arg Leu Ser Phe Ala Phe Val Leu Arg Gly Phe Arg  
 1 5 10 15  
 Asn Thr Ala Gln Asn Tyr Arg Glu Asn Thr Pro Ala Arg Ala Leu Ser  
 20 25 30  
 Arg Thr Arg Cys Ala Ala Ser Val Trp Leu Ala Ser Ser Ser Gln Phe  
 35 40 45  
 Pro Thr His Arg Leu Arg Ser Ser Asn Ser His Asp Ile Cys Ser Thr  
 50 55 60  
 Arg Arg Arg Ile Arg Cys Arg Val Leu Ala Arg Pro Phe Ser Ser Ala  
 65 70 75 80  
 Cys Cys Xaa His Arg Cys Val Thr Arg Asn Arg Arg Ala Glu Gln His  
 85 90 95  
 Asp Val Arg Phe Gly Glu Leu His Gln Pro Tyr Pro Gln Ala Gly Ala  
 100 105 110  
 Ala Gly Val Ser Arg Gly Arg Gly Glu Ala Ala Val Gly Asp Arg Trp  
 115 120 125  
 Glu Val Gly Arg Pro Gly Leu Gly Gly Ile Leu Gly Ala Gly Glu Glu  
 130 135 140  
 Met Arg Ala Pro Glu Arg Pro Arg Val Arg Arg Arg Arg Leu Glu Pro  
 145 150 155 160  
 Ser Arg Cys Cys Gly Pro Xaa Gly Pro Phe His Phe Ala Cys Lys Thr  
 165 170 175  
 Gln Ile Lys Thr Gln Cys Asp Tyr Ser Glu Leu Phe Cys Leu Lys Lys  
 180 185 190  
 Asn Val Arg Ser  
 195

&lt;210&gt; 1076

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1076

Gln Leu Thr Leu Asn Ile Ser Leu Leu Leu Ser Leu Ser Leu Ser Phe  
 1 5 10 15

Phe Phe Asn Met Val Lys Leu Asp Gln Gly Ser Glu His Arg Phe  
                   20                  25                  30

<210> 1077

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1077

Asn Cys Pro Asn Pro His Leu His Lys Asn Leu Ser Pro Val His Lys  
   1                  5                  10                  15

Ala Asp His Glu Ala Ile Ile Phe Leu Glu Gly Phe Leu Ala Cys Ser  
                   20                  25                  30

Pro Val Ala Ser Ala Ala Leu Ala Leu Cys His Ser Glu Pro Lys Gly  
           35                  40                  45

Lys Val Met Glu Gln His His Ile Cys Arg Leu Ser Val Leu Phe Gly  
       50                  55                  60

Glu Gly Lys Gly Arg Glu Cys Arg Arg Met Lys Lys Phe Leu Pro Thr  
   65                  70                  75                  80

Ala Ser Ile Leu Ile Phe Leu  
                   85

<210> 1078

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078

Pro Asp Gln Gly Gly Asp Glu Gly Ile Leu Ser Ser Arg Thr Cys Arg  
   1                  5                  10                  15

Gly Thr Arg Gln Gly Pro His Pro Arg Gly Asp Pro Val Ala Arg His

20 25 30  
 Ile Met Gly Thr Ala Gly Trp Pro Gln Ala Ser Ala Pro Leu Leu Pro  
 35 40 45  
 Cys Arg Gln Gly Leu Leu Glu Pro Cys Ala His Pro Gly Leu Leu Arg  
 50 55 60  
 Xaa Gln Pro Cys Thr Glu Ser Ala Asp Val Pro Cys Leu Xaa Thr Arg  
 65 70 75 80  
 Pro Leu Cys Pro Leu  
 85

<210> 1079

<211> 594

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (430)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079

Cys Cys Leu Arg Phe Ser Phe Thr Phe Thr Glu Met Ser Tyr Gly Glu  
 1 5 10 15  
 Ile Glu Gly Lys Phe Leu Gly Pro Arg Glu Glu Val Thr Ser Glu Pro  
 20 25 30  
 Arg Cys Lys Lys Leu Lys Ser Thr Thr Glu Ser Tyr Val Phe His Asn  
 35 40 45  
 His Ser Asn Ala Asp Phe His Arg Ile Gln Glu Lys Thr Gly Asn Asp  
 50 55 60  
 Trp Val Pro Val Thr Ile Ile Asp Val Arg Gly His Ser Tyr Leu Gln  
 65 70 75 80  
 Glu Asn Lys Ile Lys Thr Thr Asp Leu His Arg Pro Leu His Asp Glu  
 85 90 95  
 Met Pro Gly Asn Arg Pro Asp Val Ile Glu Ser Ile Asp Ser Gln Val  
 100 105 110  
 Leu Gln Glu Ala Arg Pro Pro Leu Val Ser Ala Asp Asp Glu Ile Tyr  
 115 120 125

Ser Thr Ser Lys Ala Phe Ile Gly Pro Ile Tyr Lys Pro Pro Glu Lys  
 130 135 140  
 Lys Lys Arg Asn Glu Gly Arg Asn Glu Ala His Val Leu Asn Gly Ile  
 145 150 155 160  
 Asn Asp Arg Gly Gly Gln Lys Glu Lys Gln Lys Phe Asn Ser Glu Lys  
 165 170 175  
 Ser Glu Ile Asp Asn Glu Leu Phe Gln Phe Tyr Lys Glu Ile Glu Glu  
 180 185 190  
 Leu Glu Lys Glu Lys Asp Gly Phe Glu Asn Ser Cys Lys Glu Ser Glu  
 195 200 205  
 Pro Ser Gln Glu Gln Phe Val Pro Phe Tyr Glu Gly His Asn Asn Gly  
 210 215 220  
 Leu Leu Lys Pro Asp Glu Glu Lys Lys Asp Leu Ser Asn Lys Ala Met  
 225 230 235 240  
 Pro Ser His Cys Asp Tyr Gln Gln Asn Leu Gly Asn Glu Pro Asp Lys  
 245 250 255  
 Tyr Pro Cys Asn Gly Gln Val Ile Pro Thr Phe Cys Asp Thr Ser Phe  
 260 265 270  
 Thr Ser Phe Arg Pro Glu Trp Gln Ser Val Tyr Pro Phe Ile Val Pro  
 275 280 285  
 Tyr Gly Pro Pro Leu Pro Ser Leu Asn Tyr His Leu Asn Ile Gln Arg  
 290 295 300  
 Phe Ser Gly Pro Pro Asn Pro Pro Ser Asn Ile Phe Gln Ala Gln Asp  
 305 310 315 320  
 Asp Ser Gln Ile Gln Asn Gly Tyr Tyr Val Asn Asn Cys His Val Asn  
 325 330 335  
 Trp Asn Cys Met Thr Phe Asp Gln Asn Asn Glu Tyr Thr Asp Cys Ser  
 340 345 350  
 Glu Asn Arg Ser Ser Val His Pro Ser Gly Asn Gly Cys Ser Met Gln  
 355 360 365  
 Asp Arg Tyr Val Ser Asn Gly Phe Cys Glu Val Arg Glu Arg Cys Trp  
 370 375 380  
 Lys Asp His Cys Met Asp Lys His Asn Gly Thr Asp Arg Phe Val Asn  
 385 390 395 400

Gln Gln Phe Gln Glu Glu Lys Leu Asn Lys Leu Gln Lys Leu Leu Ile  
405 410 415

Leu Leu Arg Gly Leu Pro Gly Ser Gly Lys Thr Thr Leu Xaa Arg Ile  
420 425 430

Leu Leu Gly Gln Asn Arg Asp Gly Ile Val Phe Ser Thr Asp Asp Tyr  
435 440 445

Phe His His Gln Asp Gly Tyr Arg Tyr Asn Val Asn Gln Leu Gly Asp  
450 455 460

Ala His Asp Trp Asn Gln Asn Arg Ala Lys Gln Ala Ile Asp Gln Gly  
465 470 475 480

Arg Ser Pro Val Ile Ile Asp Asn Thr Asn Ile Gln Ala Trp Glu Met  
485 490 495

Lys Pro Tyr Val Glu Val Ala Ile Gly Lys Gly Tyr Arg Val Glu Phe  
500 505 510

His Glu Pro Glu Thr Trp Trp Lys Phe Asp Pro Glu Glu Leu Glu Lys  
515 520 525

Arg Asn Lys His Gly Val Ser Arg Lys Lys Ile Ala Gln Met Leu Asp  
530 535 540

Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn Ser Val Glu  
545 550 555 560

Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Pro Gln Gly Arg Gln  
565 570 575

Arg Trp Gly Gly Ser Leu Gly Ser His Asn Arg Val Cys Val Thr Asn  
580 585 590

Asn His

<210> 1080

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1080

Leu	His	Ile	Lys	Ile	Leu	Gln	Ile	Glu	Lys	Tyr	Ile	Lys	Tyr	Ala	Met
1				5					10					15	

Gly	Leu	Thr	Phe	Tyr	Gln	Asn	Ser	His	Met	Ile	Ser	Phe	Ile	Ser	Ser
			20					25					30		

Gly	Ser	Phe	Arg	Val	Pro	Ile	Ala	Leu	Pro	Ile	Phe	Thr	Tyr	Phe	Ile
		35					40					45			

Asn	Leu	His	Xaa	Gly	Ile	Xaa	Ser	Leu	Phe	Xaa	Phe	Phe
	50					55					60	

&lt;210&gt; 1081

&lt;211&gt; 302

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1081

Ala	Pro	Pro	Ala	Leu	Leu	Glu	Ala	Glu	Val	Cys	Leu	Leu	Arg	Val	Gly
1				5					10					15	

Pro	Glu	Ala	Trp	Ser	Phe	Ser	Ala	Ser	Leu	Thr	Pro	Val	Ala	Leu	Gly
		20						25					30		

Ser	Ala	Leu	Ala	Tyr	Arg	Ser	His	Gly	Val	Leu	Asp	Pro	Arg	Leu	Leu
		35					40						45		

Val	Gly	Cys	Ala	Val	Ala	Val	Leu	Ala	Val	His	Gly	Ala	Gly	Asn	Leu
	50					55					60				

Val	Asn	Thr	Tyr	Tyr	Asp	Phe	Ser	Lys	Gly	Ile	Asp	His	Lys	Lys	Ser
65					70					75					80

Asp	Asp	Arg	Thr	Leu	Val	Asp	Arg	Ile	Leu	Glu	Pro	Gln	Asp	Val	Val
				85					90					95	

Arg	Phe	Gly	Val	Phe	Leu	Tyr	Thr	Leu	Gly	Cys	Val	Cys	Ala	Ala	Cys
					100				105					110	



Leu Tyr Tyr Leu Ser Pro Leu Lys Leu Glu His Leu Ala Leu Ile Tyr  
115 120 125

Phe Gly Gly Leu Ser Gly Ser Phe Leu Tyr Thr Gly Gly Ile Gly Phe  
130 135 140

Lys Tyr Val Ala Leu Gly Asp Leu Ile Ile Leu Ile Thr Phe Gly Pro  
145 150 155 160

Leu Ala Val Met Phe Ala Tyr Ala Ile Gln Val Gly Ser Leu Ala Ile  
165 170 175

Phe Pro Leu Val Tyr Ala Ile Pro Leu Ala Leu Ser Thr Glu Ala Ile  
180 185 190

Leu His Ser Asn Asn Thr Arg Asp Met Glu Ser Asp Arg Glu Ala Gly  
195 200 205

Ile Val Thr Leu Ala Ile Leu Ile Gly Pro Thr Phe Ser Tyr Ile Leu  
210 215 220

Tyr Asn Thr Leu Leu Phe Leu Pro Tyr Leu Val Phe Ser Ile Leu Ala  
225 230 235 240

Thr His Cys Thr Ile Ser Leu Ala Leu Pro Leu Leu Thr Ile Pro Met  
245 250 255

Ala Phe Ser Leu Glu Arg Gln Phe Arg Ser Gln Ala Phe Asn Lys Leu  
260 265 270

Pro Gln Arg Thr Ala Lys Leu Asn Leu Leu Leu Gly Leu Phe Tyr Val  
275 280 285

Phe Gly Ile Ile Leu Ala Pro Ala Gly Ser Leu Pro Lys Ile  
290 295 300

<210> 1082

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1082

Gln	Asp	Val	Ser	Glu	Met	Asp	Val	Xaa	Phe	Leu	Leu	Ile	Gln	Leu	Ser
1				5				10					15		

Cys	Tyr	Phe	Ser	Ser	Gly	Ser	Cys	Gly	Lys	Val	Leu	Val	Trp	Pro	Thr
			20					25					30		

Glu	Tyr	Ser	His	Trp	Ile	Asn	Met	Lys	Thr	Ile	Leu	Glu	Glu	Leu	Val
		35					40					45			

Gln	Arg	Gly	His	Glu	Val	Thr	Val	Val	Xaa	Ile	Xaa	Gly	Phe	Tyr	Ser
	50						55				60				

Cys	Gln	Cys	Gln
	65		

&lt;210&gt; 1083

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1083

Xaa	Pro	Pro	Gly	Gly	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu
1				5					10					15	

Gln	Val	Arg	Ala	Ile	Arg	Leu	Ala	Leu	Glu	Gly	Val	Asp	Val	Lys	Leu
			20					25						30	

Glu	Gln	Ala	Ala	Arg	Thr	Leu	Gly	Ala	Gly	Arg	Trp	Arg	Val	Phe	Phe
		35					40					45			

Thr	Ile	Thr	Leu	Pro	Leu	Thr	Leu	Pro	Gly	Ile	Ile	Val	Gly	Thr	Val
	50					55					60				

Leu	Ala	Phe	Ala	Arg	Ser	Leu	Gly	Glu	Phe	Gly	Ala	His	His	Leu	Cys
65						70				75					80

Val Glu His Ser Trp  
85

<210> 1084

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1084

Pro Pro Ser Ala Ser Ser Val Ala Gly Asp Leu Gly Arg Gly Thr Arg  
1 5 10 15

Thr Glu Val Glu Ala Arg Ala Ala Arg Pro Gly Ala Glu Ser Ala Pro  
20 25 30

Ala Ala Ala Met Pro Asp Ser Trp Asp Lys Asp Val Tyr Pro Glu Pro  
35 40 45

Pro Arg Arg Thr Pro Val Gln Pro Asn Pro Ile Val Tyr Met Met Lys  
 50 55 60  
 Ala Phe Asp Leu Ile Val Asp Arg Pro Val Thr Leu Val Arg Glu Phe  
 65 70 75 80  
 Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr Tyr His Arg Gln  
 85 90 95  
 Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp Ile Met  
 100 105 110  
 Cys Ile Lys Xaa Asp Gln Glu Ile Ile Thr Leu Cys Arg Ile Gly Ser  
 115 120 125  
 Lys Xaa Xaa Ser Arg Gly Lys Asp Arg Leu Pro Ala Asp Cys Ile Lys  
 130 135 140  
 Glu Xaa Glu Gln Leu Pro Arg Trp Pro Arg Leu Pro Gly Thr Xaa Ile  
 145 150 155 160  
 Arg Thr Xaa Gly Pro Thr  
 165

&lt;210&gt; 1085

&lt;211&gt; 392

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (386)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1085

Met Glu Leu Val Ala Gly Cys Tyr Glu Gln Val Leu Phe Gly Phe Ala  
 1 5 10 15  
 Val His Pro Glu Pro Glu Ala Cys Gly Asp His Glu Gln Trp Thr Leu  
 20 25 30  
 Val Ala Asp Phe Thr His His Ala His Thr Ala Ser Leu Ser Ala Val  
 35 40 45  
 Ala Val Asn Ser Arg Phe Val Val Thr Gly Ser Lys Asp Glu Thr Ile  
 50 55 60  
 His Ile Tyr Asp Met Lys Lys Lys Ile Glu His Gly Ala Leu Val His  
 65 70 75 80

His Ser Gly Thr Ile Thr Cys Leu Lys Phe Tyr Gly Asn Arg His Leu  
85 90 95

Ile Ser Gly Ala Glu Asp Gly Leu Ile Cys Ile Trp Asp Ala Lys Lys  
100 105 110

Trp Glu Cys Leu Lys Ser Ile Lys Ala His Lys Gly Gln Val Thr Phe  
115 120 125

Leu Ser Ile His Pro Ser Gly Lys Leu Ala Leu Ser Val Gly Thr Asp  
130 135 140

Lys Thr Leu Arg Thr Trp Asn Leu Val Glu Gly Arg Ser Ala Phe Ile  
145 150 155 160

Lys Asn Ile Lys Gln Asn Ala His Ile Val Glu Trp Ser Pro Arg Gly  
165 170 175

Glu Gln Tyr Val Val Ile Ile Gln Asn Lys Ile Asp Ile Tyr Gln Leu  
180 185 190

Asp Thr Ala Ser Ile Ser Gly Thr Ile Thr Asn Glu Lys Arg Ile Ser  
195 200 205

Ser Val Lys Phe Leu Ser Glu Ser Val Leu Ala Val Ala Gly Asp Glu  
210 215 220

Glu Val Ile Arg Phe Phe Asp Cys Asp Ser Leu Val Cys Leu Cys Glu  
225 230 235 240

Phe Lys Ala His Glu Asn Arg Val Lys Asp Met Phe Ser Phe Glu Ile  
245 250 255

Pro Glu His His Val Ile Val Ser Ala Ser Ser Asp Gly Phe Ile Lys  
260 265 270

Met Trp Lys Leu Lys Gln Asp Lys Lys Val Pro Pro Ser Leu Leu Cys  
275 280 285

Glu Ile Asn Thr Asn Ala Arg Leu Thr Cys Leu Gly Val Trp Leu Asp  
290 295 300

Lys Val Ala Asp Met Lys Glu Ser Leu Pro Pro Ala Ala Glu Pro Ser  
305 310 315 320

Pro Val Ser Lys Glu Gln Ser Lys Ile Gly Lys Lys Glu Pro Gly Asp  
325 330 335

Thr Val His Lys Glu Glu Lys Arg Ser Lys Pro Asn Thr Lys Lys Arg  
340 345 350

Gly Leu Thr Gly Asp Ser Lys Lys Ala Thr Lys Glu Ser Gly Leu Ile  
355 360 365

Ser Thr Lys Lys Arg Lys Met Val Glu Met Leu Glu Lys Lys Arg Lys  
370 375 380

Lys Xaa Lys Ile Lys Thr Met Gln  
385 390

<210> 1086

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1086

Ala Gly Thr Met His Gly Arg Leu Lys Val Lys Thr Ser Glu Glu Gln  
1 5 10 15

Ala Glu Ala Lys Arg Leu Glu Arg Glu Gln Lys Leu Lys Leu Tyr Gln  
20 25 30

Ser Ala Thr Gln Ala Val Phe Gln Lys Arg Gln Ala Gly Glu Leu Asp  
35 40 45

Glu Ser Val Leu Glu Leu Thr Ser Gln Ile Leu Gly Ala Asn Pro Asp  
50 55 60

Phe Ala Thr Leu Trp Asn Cys Arg Arg Glu Val Leu Gln Gln Leu Glu  
65 70 75 80

Thr Gln Lys Ser Pro Glu Glu Leu Ala Ala Leu Val Lys Ala Glu Leu  
85 90 95

Gly Phe Leu Glu Ser Cys Leu Arg Val Asn Pro Lys Ser Tyr Gly Thr  
100 105 110

Trp His His Arg Cys Trp Leu Leu Gly Xaa Leu Pro Glu Pro Asn Trp  
115 120 125

Thr Arg Glu Leu Glu Leu Cys Ala Arg Phe Leu Glu Val Asp Glu Arg  
130 135 140

Asn Phe His Cys Trp Asp Tyr Arg Arg Phe Val Ala Thr Gln Ala Ala

145					150					155					160
Val	Pro	Pro	Ala	Glu	Glu	Leu	Ala	Phe	Thr	Asp	Ser	Leu	Ile	Thr	Arg
				165					170					175	
Asn	Phe	Ser	Asn	Tyr	Ser	Ser	Trp	His	Tyr	Arg	Ser	Cys	Leu	Leu	Pro
			180					185					190		
Gln	Leu	His	Pro	Gln	Pro	Asp	Ser	Gly	Pro	Gln	Gly	Arg	Leu	Pro	Glu
		195					200					205			
Asp	Val	Leu	Leu	Lys	Glu	Leu	Glu	Leu	Val	Gln	Asn	Ala	Ser	Ser	Leu
	210					215					220				
Thr	Pro	Met	Thr	Arg	Val	Pro	Gly	Phe	Ile	Thr	Val	Gly	Ser		
225					230					235					

<210> 1087

<211> 79

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

**<222> (78)**

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1087

Leu Pro Ile Gln Ile Ser Leu Glu Leu Asp Arg Cys Phe Arg Gly Ala  
1 5 10 15

Ala Leu Glu Arg Gly Phe Gly Leu Cys Lys Gly Arg Lys Glu Val Gln  
20 25 30

Lys Asn Gly Val Gly Gly Ser Ala Gly Arg Leu Leu Lys Cys Gly Arg  
35 40 45

Trp Lys Leu Gly Gly Glu Ile Lys Gly Thr Xaa Asp Gln Leu Val Cys  
50 55 60

Ser Tyr Gln Gly Asp Pro Phe Gln Ser Lys Ser His Met Xaa Val  
65 70 75

&lt;210&gt; 1088

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1088

Ile Pro Val His Leu Val Ser Ser Ser Ser Asn Leu Glu Arg Phe Thr  
1 5 10 15

Ser Arg Arg Ala Pro Gly Val Gly Leu Tyr Asn Leu Lys Thr Leu Leu  
20 25 30

Phe Phe Ser Ser Val Gln Trp Val Leu Ile Pro Thr Met Ala Ile Thr  
35 40 45

Gln Phe Arg Leu Phe Lys Phe Cys Thr Cys Leu Ala Thr Val Phe Ser  
50 55 60

Phe Leu Lys Arg Leu Ile Cys Arg Ser Gly Arg Gly Arg Lys Leu Ser  
65 70 75 80

Gly Asp Gln Ile Thr Leu Pro Thr Thr Val Asp Tyr Ser Ser Val Pro  
85 90 95

Lys Gln Thr Asp Val Glu Glu Trp Thr Ser Trp Asp Glu Asp Ala Pro  
100 105 110

Thr Ser Val Lys Ile Glu Gly Gly Asn Gly Asn Val Ala Thr Gln Gln  
115 120 125

Asn Ser Leu Glu Gln Leu Glu Pro Asp Tyr Phe Lys Asp Met Thr Pro  
130 135 140

Thr Ile Arg Lys Thr Gln Lys Ile Val Ile Lys Lys Arg Glu Pro Leu  
145 150 155 160

Asn Phe Gly Ile Pro Asp Gly Ser Thr Gly Phe Ser Ser Arg Leu Ala  
165 170 175

Ala Thr Gln Asp Leu Pro Phe Ile His Gln Ser Ser Glu Leu Gly Asp  
180 185 190

Leu Asp Thr Trp Gln Glu Asn Thr Asn Ala Trp Glu Glu Glu Glu Asp  
195 200 205

Ala Ala Trp Gln Ala Glu Glu Val Leu Arg Gln Gln Lys Leu Ala Asp  
210 215 220

Arg Glu Lys Arg Ala Ala Glu Gln Gln Arg Lys Lys Met Glu Lys Glu  
225 230 235 240



Ala Gln Arg Leu Met Lys Lys Glu Gln Asn Lys Ile Gly Val Lys Leu  
245 250 255

Ser

<210> 1089

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1089

Asn Ser Ala Arg Ala Asp Leu Arg Ala Ile Asn Ala Asn Leu Asn Glu  
1 5 10 15

Lys Met Glu Ser Leu Thr Ala Val Ser Val Ser Ser Ile Ser Leu Ser  
20 25 30

Asn Ser Cys Pro Ser Leu Thr Val Leu Val Ser Val  
35 40

<210> 1090

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1090

Gly Arg Pro Ala Cys Ala Arg Glu Pro Gly Leu Glu Pro Tyr Leu Gln  
1 5 10 15

Val Pro Asn Leu Arg Leu Xaa Ser Leu Ser Leu Pro Gln Pro Arg Thr  
20 25 30

Lys Thr Ser Pro Pro Glu Gly Leu Pro Gln Leu Arg Glu Arg Ser Arg  
35 40 45

Ser Ser Leu Gly Pro Gly Cys Ala Pro Gly Ala Gly Ser Asp Val Val  
 50 55 60

Ser Ser Pro Leu Arg Thr Gly Pro Ala Arg Ser Ser Trp Pro Pro Ser  
 65 70 75 80

Arg Ala Pro Ser Xaa Pro Pro Ser Ser Thr Ala Thr Thr Cys Arg Trp  
 85 90 95

<210> 1091

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091

Lys Ala Lys Phe Asn Ile Thr Gly Ala Cys Leu Asn Asp Ser Asp Asp  
 1 5 10 15

Asp Ser Pro Asp Leu Asp Leu Asp Gly Asn Glu Ser Xaa Leu Ala Leu  
 20 25 30

Leu Met Ser Asn Gly Xaa Thr Lys Arg Val Lys Ser Leu Ser Lys Ser  
 35 40 45

Arg Arg Thr Lys Ile Ala Lys Lys Val Asp Lys Ala Arg Leu Met Ala  
 50 55 60

Glu Gln Val Met Glu Asp Glu Phe Asp Leu Xaa Ser Asp Xaa Glu Leu  
65 70 75 80  
Gln Ile Asp Glu Arg Leu Gly Lys Glu Lys Ala Thr Leu Ile Ile Arg  
85 90 95  
Pro Lys Phe Pro Arg Lys Leu Pro Arg Ala Asn Leu Ala Leu Thr Pro  
100 105 110  
Thr Glu Phe Val Asn Gln Glu Lys Leu Ser Leu Thr Leu Arg Arg Ile  
115 120 125  
Tyr Asn Arg  
130

<210> 1092  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 1092  
Leu Arg Ile Thr Val Leu Leu Thr Ser Phe Leu Met Val Leu Gly Thr  
1 5 10 15  
Gly Leu Arg Cys Ile Pro Ile Ser Asp Leu Ile Leu Lys Arg Arg Leu  
20 25 30  
Ile His Gly Gly Gln Met Leu Asn Gly Leu Ala Gly Pro Thr Val Met  
35 40 45  
Asn Ala Ala Pro Phe Leu Ser Thr Thr Trp Phe Ser Ala Asp Glu Arg  
50 55 60  
Ala Thr Ala Thr Ala Ile Ala Ser Met Leu Ser Tyr Leu Gly Gly Ala  
65 70 75 80  
Cys Ala Phe Leu Val Gly Pro Leu Val Val Pro Ala Pro Asn Gly Thr  
85 90 95  
Ser Pro Leu Leu Ala Ala Glu Ser Ser Arg Ala His Ile Lys Asp Arg  
100 105 110  
Ile Glu Ala Val Leu Tyr Ala Glu Phe Gly Val Val Cys Leu Ile Phe  
115 120 125  
Ser Ala Thr Leu Ala Tyr Phe Pro Pro Arg Pro Pro Leu Pro Pro Ser  
130 135 140

Val Ala Ala Ala Ser Gln Arg Glu Leu Ser Glu Lys Arg Leu  
 145 150 155

<210> 1093

<211> 235

<212> PRT

<213> Homo sapiens

<400> 1093

Arg Ala Ala Gln Leu Trp Val Trp Glu Gly Val Val Gln Pro Pro Ala  
 1 5 10 15

Ala Trp Gly Gly Pro Trp Ser Ala Ser Arg Cys Gln Gln Gly Lys Gly  
 20 25 30

Gly Val Leu Glu Asn Glu Gly Phe Ile Gly Leu Leu Arg Glu Ala Pro  
 35 40 45

Gln Pro Gln Thr His His Leu Ala Val Asp Thr Cys Val Ser Met Trp  
 50 55 60

Asp Leu Val Leu Ser Ile Ala Leu Ser Val Gly Cys Thr Gly Ala Val  
 65 70 75 80

Pro Leu Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His  
 85 90 95

Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His Cys  
 100 105 110

Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys  
 115 120 125

Leu Lys Lys Asn Ser Gln Val Trp Leu Gly Arg His Asn Leu Phe Glu  
 130 135 140

Pro Glu Asp Thr Gly Gln Arg Val Pro Val Ser His Ser Phe Pro His  
 145 150 155 160

Pro Leu Tyr Asn Met Ser Leu Leu Lys His Gln Ser Leu Arg Pro Asp  
 165 170 175

Glu Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Ala  
 180 185 190

Lys Ile Thr Asp Val Val Lys Val Leu Gly Leu Pro Pro Arg Ser Gln  
 195 200 205

His Trp Gly Pro Pro Ala Thr Pro Gln Ala Gly Ala Ala Ser Asn Gln

210

215

220

Arg Ser Ser Cys Ala Pro Gly Val Phe Ser Val  
 225 230 235

&lt;210&gt; 1094

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1094

Arg Arg Xaa Xaa Gly Arg Thr Asp Thr Ser Arg Ser Thr Ser Gly Glu  
 1 5 10 15

Pro Lys Glu Arg Asp Lys Glu Glu Gly Lys Asp Ser Lys Pro Arg Ser  
 20 25 30

Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro Asn  
 35 40 45

Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys Asp  
 50 55 60

Tyr Glu Gln Lys Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp Ala  
 65 70 75 80

Arg Gln Asp Ser Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu Pro  
 85 90 95

Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr Ser  
 100 105 110

Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys Leu  
 115 120 125

<210> 1095

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1095

Ile Leu Phe Ser Ser Leu Leu Thr Cys Asn Phe Cys Leu Pro Ile Pro  
1 5 10 15

Pro Ser Pro Leu Ser Phe Pro Glu Arg His Leu Gly Ser Tyr Leu Leu  
20 25 30

Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro  
35 40 45

Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val  
50 55 60

Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro  
65 70 75 80

Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val  
85 90 95

Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu  
100 105 110

Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu  
115 120 125

Lys Glu Arg Pro Ser Pro Gly Pro Pro Trp Ser Pro Cys Ile Thr Ala  
130 135 140

Ile Leu Thr Thr His Thr Cys Thr Ala Trp Ala Val Glu Pro Ser Phe  
145 150 155 160

Xaa Val Met Pro Ala Gln Val Thr Thr Ile Met Ile Lys Asn Cys Leu  
165 170 175

Pro Gln Gly Val Ser Met Lys Ser Thr Arg Gly Gln Gly Gln Gly Ala  
180 185 190

Arg Val Cys Thr Pro Xaa Leu Leu Glu Ile Cys Val Glu Xaa Ser Asp  
195 200 205

Ser Ser Leu Val Arg Gln  
210

<210> 1096

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1096

Ile Arg His Glu Lys Lys Glu Arg Met Lys Glu Arg Lys Glu Lys Lys  
1 5 10 15

Glu Arg Lys Glu Lys Gly Lys Lys Glu Arg Lys Glu Arg Lys Glu Arg  
20 25 30

Lys Arg Glu Lys Glu Arg Arg Lys Arg Arg Lys Gly Ile Pro Gly Ile  
35 40 45

Tyr His Cys Met Ser Lys Gly Arg Val Val Asp Arg His Ser  
50 55 60

<210> 1097

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097  
 Lys Lys His Trp Gly Met Leu Gln Asp Ile Gly Leu Gly Lys Asp Phe  
   1                  5                  10                  15  
 Leu Ser Asn Thr Leu Lys Gly Gln Ala Thr Gln Ala Lys Met Xaa Xaa  
                   20                  25                  30  
 Trp Xaa Xaa Xaa Xaa Leu Lys Asn Phe Tyr Thr Ala Lys Glu Thr Lys  
           35                  40                  45

<210> 1098  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1098  
 Asn Ile Pro Leu Asp Ser Glu Thr His Asn Tyr Gln Ile Val Asn His  
   1                  5                  10                  15  
 Asp Gln Lys Leu Leu Leu Ile Thr Ser Thr Thr Pro Gln Trp Lys Lys  
           20                  25                  30



Asn Arg Val Thr Val Tyr Glu Tyr Asp Thr Arg Glu Asp Gln Trp Ile  
35 40 45

Asn Ile Gly Thr Met Leu Gly Leu Leu Gln Phe Asp Ser Gly Phe Ile  
50 55 60

Cys Leu Cys Ala Arg Val Tyr Pro Ser Cys Leu Glu Pro Gly Gln Ser  
65 70 75 80

Phe Ile Thr Glu Glu Asp Asp Ala Arg Ser Xaa Ser Ser Thr Glu Trp  
85 90 95

Asp Leu Asp Gly Phe Ser Glu Leu Asp Ser Glu Ser Gly Ser Ser Ser  
100 105 110

Ser Phe Ser Asp Asp Glu Val Trp Val Gln Val Ala Pro Gln Arg Asn  
115 120 125

Ala Gln Asp Gln Gln Gly Ser Leu  
130 135

<210> 1099  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 1099  
Arg His Glu Arg Lys Val Lys Lys Arg Lys Lys Glu Arg Asn Lys Gln  
1 5 10 15

Thr Lys Gln Leu Ala Tyr Ile Tyr Leu Leu Asn Thr Gly Arg Ser Ile  
20 25 30

His Asn Leu Thr Leu  
35

<210> 1100  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1100

Phe Gly Thr Arg Asp Thr Arg Val Lys Glu Arg Gly His Ala Val Ser  
 1 5 10 15  
 Glu Lys Leu Leu Leu Gly Trp Lys Gly Gln Leu His Lys Gly Cys Ser  
 20 25 30  
 Cys Arg Gly Ser Pro Ala Ala Arg Cys Leu Leu Thr Val Pro Arg Leu  
 35 40 45  
 Ser Pro Asp Thr Glu Gly Cys Lys Gly Ser Leu Phe Leu Leu Ser Gly  
 50 55 60  
 Ile Gly Lys Leu Tyr His Leu Ser Leu Pro Thr Leu Thr Ser Ala Pro  
 65 70 75 80  
 Ala Thr Leu Ser Leu Trp Leu Leu Leu Thr Phe Ser Pro Leu Ile Phe  
 85 90 95  
 Ser Pro Asp Gln Val Leu Gly Xaa Ser  
 100 105

&lt;210&gt; 1101

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1101

Ser Gly Arg Thr Leu Val Leu Arg Leu Ala Tyr Val Ser Arg Thr Val  
 1 5 10 15  
 Thr Thr Met Ala Pro Glu Val Leu Pro Lys Pro Arg Met Arg Gly Leu  
 20 25 30  
 Leu Ala Arg Arg Leu Arg Asn His Met Ala Val Ala Phe Val Leu Ser  
 35 40 45  
 Leu Gly Val Ala Ala Leu Tyr Lys Phe Arg Val Ala Asp Gln Arg Lys  
 50 55 60  
 Lys Ala Tyr Ala Asp Phe Tyr Arg Asn Tyr Asp Val Met Lys Asp Phe  
 65 70 75 80  
 Glu Glu Met Arg Lys Ala Gly Ile Phe Gln Ser Val Lys  
 85 90

&lt;210&gt; 1102

&lt;211&gt; 26

<212> PRT

<213> Homo sapiens

<400> 1102

Phe Gly Thr Ser Ala Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Gly  
1 5 10 15  
Arg Asp Gly Val Ser Ser Arg Trp Leu Gly  
20 25

<210> 1103

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1103

Gly Ser Glu Ser Asn Arg Leu Lys Phe Lys Ser Ser Ser Ala Thr Trp  
1 5 10 15  
Leu Met Leu Ser Glu Pro Gln Arg Pro Gln Leu Leu Asn Arg Gly Asn  
20 25 30  
His Pro His Leu Ser Ser Phe Gly Arg Lys Leu Asn Glu Ile Tyr Trp  
35 40 45  
Gly Ser Arg  
50

<210> 1104

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1104

Lys Arg Tyr Ser Val Leu Ile Leu Cys Lys Lys Xaa Lys Ser Ser Asn  
1 5 10 15

Cys Phe Pro Met Xaa Lys Ile Thr Met Ser Cys Ile Met Leu Leu Ser  
20 25 30

Phe Tyr Val Asn Ile Ser Tyr Xaa Ser Ser Ile Lys Xaa Ile Tyr  
35 40 45

<210> 1105

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1105

Leu Leu Lys Leu Cys Asn Leu Gln Asn Ile Ala Ile Lys Leu His Thr  
1 5 10 15

Met Phe Ser Ile Ile Leu Ile Asp Leu Pro Tyr Lys His Leu Asn Lys  
20 25 30

Lys Tyr Tyr Leu Met Ile Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45

Lys Lys Lys Lys Lys Arg Glu Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60

Xaa Gly Gly Gly Xaa Lys Lys Lys  
65 70

<210> 1106  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1106  
Gly Leu Ser His Ser Asn Ser Ser Tyr Leu Glu Pro Leu Gly Ser Asp  
1 5 10 15  
Val Asp Arg Ala Asn Val Lys Phe Thr Glu Asn Thr Cys Val Phe Arg  
20 25 30  
Thr Leu Lys Gly Thr Ile Arg Ala Cys Phe Pro Ser Leu Tyr Met His  
35 40 45  
Ile Phe Gly Ile Ser Xaa Gly Leu Xaa Asp Val Val Ile Xaa Asn Thr  
50 55 60  
Ala Arg Met Xaa Ala Val Leu Ile His Xaa Gln Lys Arg Gly Gly  
65 70 75

<210> 1107  
<211> 91  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1107

Ile Ile Ala Ala Leu Ser Pro Ile Gln Ile Leu Pro Ser Asp Gly Lys  
1 5 10 15

Asp Gln Phe Ser Cys Gly Asn Ser Val Ala Asp Gln Ala Phe Leu Asp  
20 25 30

Ser Leu Ser Ala Ser Thr Ala Gln Xaa Ser Ser Ser Ala Ala Ser Asn  
35 40 45

Asn His Gln Val Arg Leu Thr Ser Ser Phe Trp Met Trp Leu Ala Leu  
50 55 60

Arg Lys Thr Glu Arg Ile Cys Xaa Arg Leu Val Met His Tyr Ser Tyr  
65 70 75 80

Cys His Ser Pro Lys Ala Lys Thr Lys Ser Leu  
85 90

<210> 1108

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1108

Glu	Val	Ile	Lys	Val	Met	Asn	Thr	Cys	Gln	Cys	Ser	Gly	Phe	Thr	Pro
1				5				10				15			
Val	Leu	Gln	His	Phe	Gly	Glu	Ala	Lys	Ala	Gly	Arg	Ser	Phe	Glu	Pro
			20					25				30			
Gln	Asp	Xaa	Gly	Thr	Thr	Xaa	Gly	Asn	Ile	Val	Arg	Pro	Xaa	Val	
		35					40					45			

<210> 1109

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1109

Trp	Asn	His	Leu	His	Asp	Leu	Arg	Val	Ser	Arg	Asp	Leu	Leu	Ser	Arg
1				5					10					15	

Ile	Leu	Lys	Glu	His	Tyr	Lys	Phe	Arg	Glu	Lys	Ile	Asn	Ile	Leu	Ile
			20					25					30		

Ile	Leu	Lys	Leu	Arg	Asn	Phe	Ser	Ser	Leu	Arg	Gly	His	Lys	Val	Phe
		35					40					45			

Val	Val	Tyr	Thr	Ser	Asn	Lys	Ser	Ser	Ile	Phe	Xaa	Asn	Xaa	Trp	Xaa
	50					55					60				

Glu	Xaa	Xaa	Trp	Tyr	Val	Lys	Lys	Arg	Pro	Xaa	Pro	Xaa	Gly
65					70				75				

&lt;210&gt; 1110

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1110

Thr	Trp	Ser	Leu	His	Lys	Ile	Gln	Lys	Leu	Arg	Trp	Ala	Trp	Trp	Cys
1				5					10					15	

Val	Pro	Ile	Val	Pro	Leu	Leu	Val	Gly	Leu	Arg	Gln	Glu	Xaa	His	Leu
		20						25					30		

Ser	Pro	Gly	Gly	Arg	Gly	Tyr	Ser	Xaa	Pro	Arg	Val	His	Tyr	Cys	Thr
	35						40					45			

Pro	Ala	Arg	Ala	Arg	Glu	Arg	Asp	Pro	Val	Ser	Ile	Asn	Lys
50						55					60		



<210> 1111  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1111  
 Phe Met Asn Leu Phe Pro Gly Lys Pro Tyr Asp Ser Thr Val Lys Gly  
     1                    5                    10                    15  
 Val Arg Ile Val Lys Met Val Phe Ser Asp Gln Val Cys Ala His Ala  
             20                    25                    30  
 Trp Pro Trp Ile Asp Ser Glu Met Arg Phe Phe Val  
             35                    40

<210> 1112  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1112  
 Gly Arg Ala Ile Met Ala Ala Ser Arg Leu Glu Leu Asn Leu Val Arg  
     1                    5                    10                    15  
 Leu Leu Xaa Arg Cys Glu Ala Met Ala Ala Glu Lys Arg Asp Pro Asp  
             20                    25                    30  
 Glu Trp Arg Leu Glu Lys Tyr Val Gly Ala Leu Glu Asp Met Leu Gln  
             35                    40                    45  
 Ala Leu Lys Val His Ala Ser Lys Pro Ala Ser Glu Val Ile Asn Glu  
             50                    55                    60  
 Tyr Ser Trp Lys Val Asp Phe Leu Lys Gly Met Leu Gln Ala Glu Lys  
     65                    70                    75                    80  
 Leu Thr Ser Ser Ser Glu Lys Ala Leu Ala Asn Gln Phe Leu Ala Pro  
             85                    90                    95  
 Gly Arg Val Pro Thr Thr Ala Arg Glu Arg Val Pro Ala Thr Lys Thr  
             100                    105                    110  
 Val His Leu Gln Ser Arg Ala Arg Tyr Thr Ser Glu Met Arg Ser Glu  
             115                    120                    125

Leu Leu Gly Thr Asp Ser Ala Glu Pro Glu Met Asp Val Arg Lys Arg  
130 135 140

Thr Gly Val Ala Gly Ser Gln Pro Val Ser Glu Lys Gln Ser Ala Ala  
145 150 155 160

Glu Leu Asp Leu Val Leu Gln Arg His Gln Asn Leu Gln Glu Lys Leu  
165 170 175

Ala Glu Glu Met Leu Gly Leu Ala Arg Ser Leu Lys Thr Asn Thr Leu  
180 185 190

Ala Ala Gln Ser Val Ile Lys Lys Asp Asn Gln Thr Leu Ser His Ser  
195 200 205

Leu Lys Met Ala Asp Gln Asn Leu Glu Lys Leu Lys Thr Glu Ser Glu  
210 215 220

Arg Leu Glu Gln His Thr Gln Lys Ser Val Asn Trp Leu Leu Trp Ala  
225 230 235 240

Met Leu Ile Ile Val Cys Phe Ile Phe Ile Ser Met Ile Leu Phe Ile  
245 250 255

Arg Ile Met Pro Lys Leu Lys  
260

<210> 1113

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113

Xaa Ala Xaa Xaa Xaa Trp Pro Pro Pro Lys Gly Asn Lys Ser Trp Ser  
1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys  
20 25 30

Arg Gln Lys Gly Xaa Phe Lys Ile  
35 40

<210> 1114

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114

Arg Lys Arg Leu Ala Phe Trp Thr Thr Gly Ile Arg Asp Trp Leu Thr  
1 5 10 15

Trp Arg Thr His Ser Val Cys Ala Glu Xaa Arg Ala Leu Thr Ser Ala  
20 25 30

Glu Ala Glu Val Gly Ala Cys Pro Arg Gly Leu Thr Arg Phe Ala Ser  
35 40 45

Arg Pro Gln Pro Leu His Leu Leu Lys Ala Gln Glu Met Ile Arg Leu  
50 55 60

Lys His Pro Pro Ile Leu Leu Phe Cys Leu Gly Trp Lys Thr Trp Pro  
65 70 75 80

Arg Ser Trp Arg Pro Leu Leu His Leu Pro Asp Ser Gln Glu Ser Ser  
85 90 95

Asp Gln Ser Cys Arg Thr Leu Leu Leu Pro Leu Ala Leu Leu Pro Phe

100 105 110  
 Ser Ser Ser Trp Gly Pro Ser Leu Val Pro His Ser Leu  
 115 120 125

<210> 1115  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1115  
 Ile Asp Lys Arg Val Pro Cys Asn Gln Leu Lys Ser Val Leu Cys Val  
 1 5 10 15  
 Cys Phe Val Ser Gly Ala Glu Tyr Asp Asn Leu Pro Thr Val Pro Leu  
 20 25 30  
 Phe Glu Val Gly Leu Ala Leu Glu Ser Tyr Cys Lys Cys Leu Ala Cys  
 35 40 45  
 Met Ile Val Pro Gly His Pro Thr Leu Glu Phe Ala Pro Ser Cys Phe  
 50 55 60  
 Ser Glu Asp Ala Val Asn Arg Phe Arg Phe Tyr Cys Leu Trp Ile Trp  
 65 70 75 80  
 Gly Val Thr Val Ala Leu Phe Thr Phe Leu Ile Lys Ile His Met Lys  
 85 90 95  
 Thr Arg Lys Lys Trp Leu Phe Leu Pro Arg Leu Cys Thr  
 100 105

<210> 1116  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1116

Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile  
1 5 10 15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser  
20 25 30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser  
35 40

&lt;210&gt; 1117

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1117

Lys Xaa Ala Thr Pro Arg Pro Pro Gly Glu Thr Arg Pro Arg Met Pro  
1 5 10 15

Arg Leu Phe Leu Phe His Leu Leu Glu Phe Cys Leu Leu Leu Asn Gln  
20 25 30

Phe Ser Arg Ala Val Ala Ala Lys Trp Lys Asp Asp Val Ile Lys Leu  
35 40 45

Cys Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile Leu Gly  
50 55 60

&lt;210&gt; 1118

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1118

Pro Ser Val Glu Trp Glu Gln Gly His Ser Glu Arg Ala Glu Ser Pro  
1 5 10 15  
His Pro Pro Thr Leu Gln Gln Ala Ala Ala Gly Arg Leu Val Asn Cys  
20 25 30  
Arg Ala Gly Thr Gln Gln Gln Ala Ala Gly Thr Pro Xaa Leu Leu Gln  
35 40 45  
Leu Met Ala Val Cys Leu Ser Gln Asp Leu Glu Lys Thr Arg Leu Val  
50 55 60  
Tyr Glu Arg Ile Thr Ile Gly Thr Leu Phe Met Ser Phe Met Asn Xaa  
65 70 75 80

&lt;210&gt; 1119

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

Thr Gln Gln Ser Val Pro Val Ile Val His Pro Gly Val Ala Leu Leu  
1 5 10 15  
Ile Pro Ser Gly Met Tyr Leu Pro Ser Glu Leu His Phe Phe Lys Met  
20 25 30  
Leu Trp Val Val Gly Trp Glu Thr Ile Leu Gln Pro Ser Ser Asp Leu  
35 40 45  
Ile Asn Ser Leu Arg Asp Cys Lys Ala Glu Ser Thr Ser Gly His Ser  
50 55 60  
Trp Glu Thr Asp Pro Leu Val Met Lys  
65 70

&lt;210&gt; 1120

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1120  
Thr Ser Ser Ser Tyr Ser Asp Lys Gln Asp Thr Pro Pro His Pro Thr  
1 5 10 15  
Cys Ser Ile Ser Leu Ser Pro Leu Pro Gln Thr His Leu His Cys Ser  
20 25 30  
Ser Cys Arg Gly Ser Arg Lys Xaa Ile Leu Lys Ile Thr Arg Val Gly  
35 40 45  
Xaa Gly Ala Val Xaa Ser Gly Cys Xaa Xaa Gln His Phe Gly Xaa Gly  
50 55 60  
Pro Gly Lys Ala Val His Phe Gly Val Lys Gly Phe Leu  
65 70 75

<210> 1121  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1121

Pro Xaa Leu Tyr Tyr Val Lys Leu Pro Ile Lys Tyr Phe Tyr Asp Tyr  
1 5 10 15

Arg Phe Cys Ile Phe Val Tyr Asn Tyr Leu Lys Ser Phe Met Leu Tyr  
20 25 30

Leu Glu Phe Gln Pro Arg Asn His Thr Val Leu Lys Phe Ser Trp Gly  
35 40 45

Leu Leu Leu Ser Leu Asn His Leu Leu Asn Ile Tyr Leu Pro Lys Gly  
50 55 60

Asp Phe  
65

<210> 1122

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1122

Ser Gln His Phe Gly Asn Ala Glu Val Ser Gly Ser Pro Glu Val Arg  
1 5 10 15

Ser Ser Arg Pro Ala Trp Ala Asn Met Val Lys Pro His Phe Leu Leu  
20 25 30

Lys Lys Lys Lys Leu Gly Gly Gly Xaa  
35 40

<210> 1123

<211> 45

<212> PRT

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1123

Lys	Lys	Lys	Lys	Gly	Cys	Thr	Lys	Ile	Ser	Phe	Xaa	Gln	Arg	Leu	Xaa
1				5				10						15	

Lys	Arg	Lys	Lys	Lys	Arg	Asn	Thr	Cys	Val	Leu	Lys	Thr	Ile	Cys	Ile
		20						25					30		

Phe	Ser	Phe	Leu	Asp	His	Thr	Val	Ala	Asn	Tyr	Cys	Tyr
		35					40					45

&lt;210&gt; 1124

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1124

Arg	Leu	Pro	Arg	Asn	Ile	Thr	Pro	Glu	Trp	Leu	Gln	Pro	Arg	Arg	Pro
1				5					10					15	

Gly	Val	Pro	Cys	Phe	Trp	Ile	Gln	Phe	Ser	Xaa	Val	His	Gly	Phe	Pro
			20					25					30		

Lys	Glu	Trp	Ser	Cys	Xaa	Phe	Phe	Gly	Ile	Val	Asn	Ile	Leu	Leu	Lys
		35						40					45		

Tyr	Gly	Ala	Gln	Ile	Asn	Glu	Leu	His	Leu	Ala	Tyr	Cys	Leu	Lys	Tyr
	50						55					60			

Glu	Lys	Phe	Ser	Ile	Phe	Arg	Tyr	Phe	Leu	Arg	Lys	Gly	Cys	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

65                      70                      75                      80  
 Gly Pro Trp Asn His Ile Tyr Glu Phe Val Asn His Ala Ile Lys Ala  
                                  85                      90                      95  
 Gln Ala Lys Tyr Lys Glu Trp Leu Pro His Leu Leu Val Ala Gly Phe  
                                  100                      105                      110  
 Asp Pro Leu Ile Leu Leu Cys Asn Ser Trp Ile Asp Ser Val Ser Ile  
                                  115                      120                      125  
 Asp Thr Leu Ile Phe Thr Leu Glu Phe Thr Asn Trp Lys Thr Leu Ala  
                                  130                      135                      140  
 Pro Ala Val Glu Arg Met Leu Ser Ala Arg Ala Ser Asn Ala Trp Ile  
 145                      150                      155                      160  
 Leu Gln Gln His Ile Ala Thr Val Pro Ser Leu Thr His Leu Cys Arg  
                                  165                      170                      175  
 Leu Glu Ile Arg Ser Ser Leu Lys Ser Glu Arg Leu Arg Ser Asp Ser  
                                  180                      185                      190  
 Tyr Ile Ser Gln Leu Pro Leu Pro Arg Ser Leu His Asn Tyr Leu Leu  
                                  195                      200                      205  
 Tyr Glu Asp Val Leu Arg Met Tyr Glu Val Pro Glu Leu Ala Ala Ile  
                                  210                      215                      220  
 Gln Asp Gly  
 225

<210> 1125

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1125

Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys  
 1                      5                      10                      15  
 Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val  
                                  20                      25                      30  
 Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile  
                                  35                      40                      45  
 Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu  
                                  50                      55                      60

Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr  
65 70

<210> 1126  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1126  
Ile Ser Ser Thr Pro Ser Leu Thr Gln Ile Leu Val Phe Ile Met Asp  
1 5 10 15

Phe Phe Phe Lys Leu Val Tyr Leu Ile Leu Ser Phe His Phe Trp Gln  
20 25 30

His Met Asp Asp Phe Ile Phe Asn Asn His Ile Ser  
35 40

<210> 1127  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1127  
Leu Ser Pro Phe Glu Ala Ser Thr Asp Trp Xaa Lys Gln Ile Xaa Lys  
1 5 10 15

Trp Asp Val Thr Gly Leu Ile Ser Thr Asn Arg Leu Phe Thr Thr Pro  
20 25 30

Ser Trp Xaa Pro Val Ser

35

&lt;210&gt; 1128

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

Gly Thr Glu Cys Thr His Gly Lys Lys Pro Cys Phe Val Phe Cys Ser  
 1 5 10 15

Leu Phe Phe Leu Ser Pro Phe Leu Ser Phe Met Ala Gly Asp Met Ile  
 20 25 30

Tyr Cys Ser His Pro Ser Trp Gly Leu Ile His His Thr Arg Val Ala  
 35 40 45

Arg Arg Leu Trp Gln Gln Leu Phe Ala Leu Asn Gln Thr Glu Lys Leu  
 50 55 60

Ser Ile Ile Lys Gly Arg  
 65 70

&lt;210&gt; 1129

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

His Leu Pro Leu Ser Glu Thr His Ser Pro Ile Leu Asn Ala Tyr Ala  
 1 5 10 15

Val Gly Tyr His Leu Pro Leu Glu Val Leu Glu Ala Ile Ser Cys Arg  
 20 25 30

Ser Arg Val Ala Met Gly Leu Asn Tyr Tyr Tyr Pro Pro Lys Met Leu  
 35 40 45

Cys Leu  
 50

&lt;210&gt; 1130

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

Phe Val Lys Gly Val Asn Cys Leu Ile Tyr Leu Thr Arg Phe Phe Lys  
1 5 10 15

Gln Ile Leu Ile Gly His Ala Leu His Ala Arg Leu Trp Ala Trp Tyr  
20 25 30

Leu Arg Val Leu Thr Gly Glu Ala Gly Ser Gly Asn Lys His Met Cys  
35 40 45

Asn Cys Cys Val Asp Ser Leu Ile Gly Arg Lys Ser Ala Asn Lys Glu  
50 55 60

Ala Asp Lys Leu Glu Asn Glu Arg Lys Val Met Cys  
65 70 75

&lt;210&gt; 1131

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1131

Thr Pro Tyr Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr  
1 5 10 15

Tyr Ser Lys Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr  
20 25 30

Leu Leu Asp Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser  
35 40 45

Gly Thr Ala Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser  
50 55 60

Cys Gln Arg Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu  
65 70 75 80

Val Ser Leu Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp  
85 90 95

Leu Thr Pro Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys  
100 105 110

Ala Asn Leu Ile Lys Ile Leu Ala Gln  
115 120

&lt;210&gt; 1132

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1132

Lys	Thr	Arg	Gly	Lys	Leu	Asp	Lys	Glu	Pro	Arg	Pro	Thr	Gly	Val	Cys
1				5					10					15	

Cys	Leu	Gln	Glu	Thr	His	Leu	Thr	Cys	Gly	Gly	Ile	His	Arg	Leu	Lys
		20						25					30		

Ile	Lys	Glu	Trp	Arg	Lys	Ile	Phe	Gln	Ala	Asn	Gly	Lys	Gln	Lys	Lys
		35					40					45			

Ala	Gly	Val	Ala	Leu	Leu	Leu	Ser	Asp	Lys	Thr	Xaa	Xaa	Ala	Xaa
	50					55					60			

&lt;210&gt; 1133

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1133

Pro	Ser	Gln	Val	Ser	Leu	Asn	His	Pro	Asp	Asp	Leu	Pro	Val	Glu	Arg
1				5					10					15	

Ser	Tyr	Pro	Ser	Gln	Val	Tyr	Phe	Leu	Met	Arg	Thr	Gly	His	Ser	Trp
			20					25					30		

Asp Asp Leu Pro Ala Glu Arg Ser Asp Ile Phe Trp Val Xaa  
35 40 45

**<210> 1134**

<211> 65

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (20)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1134**

Asn Ser Ala Arg Glu Val Ile Tyr Met Ile His Ser Gln Glu Leu Leu  
1 5 10 15

Asp Arg Lys Xaa Gln Gly Pro Gln Pro Leu Cys Pro Leu Tyr Pro Gln  
20 25 30

Met Ala Leu Gly Ile Asn Ser Ser Gly Ile Ala Leu Lys Asn Ser Ala  
35 40 45

Ser Cys Phe Ala Glu Cys His Gly His Val Ile Leu Arg Ser His Asn  
50 55 60

Thr

65

**<210> 1135**

<211> 30

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (26)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1135**

Ser Cys Val Arg Gly Asn Leu Glu Pro Tyr Ile Asn Thr Tyr Ile Ile  
1 5 10 15

Lys Gly Lys Ile Leu Lys Val Asn Gly Xaa Lys Ala Ser Ile  
20 25 30

<210> 1136  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1136  
Pro Glu Ser Arg His Ile Leu Val Cys Thr Gln Leu Trp Ala Lys Xaa  
1 5 10 15  
Arg Trp Arg His Leu Ser Ser His Ala Glu Leu His Ser Arg Leu Arg  
20 25 30  
Thr Trp Val Gly Ser Ser Lys Val Ile Ala Lys Ala Pro Leu Ser Gly  
35 40 45  
Gly Tyr Thr  
50

<210> 1137  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1137  
Ser Arg Leu Ser Phe Gln Asp Leu Ala Pro Ala Leu Gly Met Val Gly  
1 5 10 15



Gly Lys Ala Lys Asn Leu Gly Ser Xaa Xaa Pro Trp Ala Leu Lys Asn  
                   20                  25                  30

Val Val Leu Phe Lys Glu Gln Gly Ser Xaa Gln Gly Cys Phe Trp Gly  
           35                  40                  45

<210> 1138

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1138

Lys Met Cys Leu Phe Gln Leu Ser Gln Xaa Gly Asn Val Thr Gly Ile  
   1                  5                  10                  15

Arg Trp Val Lys Ala Arg Asp Ala Ala Arg His Ser Thr Val His Arg  
           20                  25                  30

Thr Thr Pro Thr Thr Lys Asn Tyr Leu Ala Gln Asn Val Asn Asn Ala  
           35                  40                  45

Glu Val Glu Lys Xaa  
           50

<210> 1139

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1139

Ile	Gly	Phe	Gly	His	Asp	Thr	Asp	Phe	Leu	Glu	Ala	Arg	Cys	Cys	Phe
1				5					10					15	

Xaa	Ser	Gly	Met	Gly	Val	His	Asp	Cys	Pro	Glu	Gln	Pro	Arg	Ser	Gln
			20					25					30		

Phe	Phe	Arg	Arg	Leu	Ser	Ala	Ile	Ser	Ala	Gln	Ala	Phe	Thr	Gly	Gln
		35					40					45			

Gly	Gln	Lys	Gln	Leu	Xaa	Gly	Val	Gly	Gly	Ala	Ser	Ser	Thr	Ala	Ala
	50					55					60				

Trp	Pro	Gln	Glu	Ile	Gly	Cys	Ser	Ser	Ser	Ser	Ala	Cys	Gly	Met	Val
65					70					75				80	

Arg	Asn	Asn	Leu	Gly	Gly
				85	

&lt;210&gt; 1140

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1140

Ile	Lys	Lys	Tyr	Ile	Phe	His	Phe	Tyr	Phe	Ile	Xaa	Asn	His	Asn	Tyr
1				5					10					15	

Leu	Leu	Arg	Arg	Cys	Met	His	Leu	Leu	Asp	Thr	Val	Gln	Leu	Leu	Thr
			20						25				30		

Trp	Asn	Glu	Ile	Gly	His	Cys	Cys	Pro	His	Phe	Leu	Leu	His	Val	Gly
		35					40					45			

Val	His	Ile	Val	Leu	Asp	Phe	Leu	Ser	Asp	Gly	Leu	Glu	Asn	Pro	Val
	50					55					60				

Ser	Gln	Lys	Tyr	Glu	Ile	Ile	Arg	Arg	Ile	Ile	Val	Gln	Ser	Tyr	Val
65					70					75				80	

Glu Arg Met Asn Tyr Leu Thr Ser Ser Ser Arg Asp Val  
85 90

<210> 1141

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141

Lys Ile Ile Ile Phe Ser Val Val His Asn Asn Val Leu Asn Ile Leu  
1 5 10 15

Leu Ile Lys Gly Ala Met Ser Leu Cys Met Val Leu Asn Val Ser Cys  
20 25 30

Val Pro Phe Ala Gln Leu Arg Ile Leu Gln Leu Gly Phe Asn Glu Trp  
35 40 45

Gly His Gly Ile Ile Met Gly Xaa Cys Lys Lys Xaa Lys Arg Gly  
50 55 60

<210> 1142

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1142

Phe Cys Val Glu Leu Ile Ser Gln Cys Arg Gly Lys Asn Ser Leu Gly  
1 5 10 15

Ser Ser Leu Asp Ile Thr Val His Arg Ala Ser His Gln Asp Asp Pro  
20 25 30

Thr Phe Tyr Gly Gly Pro Gly Ile Gly Ser Pro Glu Pro Ile Thr Gln  
35 40 45

Xaa Pro Ser Asp Gly Trp Gly Xaa Trp  
50 55

&lt;210&gt; 1143

&lt;211&gt; 203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1143

Ala Leu Ala Leu Cys Gln Cys Gly Val Pro Ala Cys Ser His Val Pro  
1 5 10 15

Met Trp Ser Ala Arg Leu Leu Met Cys Pro Cys Gly Val Pro Ala Cys  
20 25 30

Ser His Met Xaa Met Arg Ser Ala Xaa Leu Leu Thr His Ala His Val  
35 40 45

Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro Ala Cys Ser  
50 55 60

His Thr Cys Pro Cys Gly Val Pro Thr Cys Ser Cys Ala His Val Glu  
65 70 75 80

Cys Pro Pro Ala His Met Cys Arg Cys Gly Val Pro Pro Ala His Thr  
85 90 95

Arg Ala His Val Glu Cys Pro Pro Ala His Xaa Cys Arg Cys Gly Val  
100 105 110

Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu Thr Arg  
115 120 125

Ala Asp Ala Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro  
130 135 140

Ala Cys Ser His Val Pro Thr Arg Ser Ala Arg Leu Leu Thr Arg Ala  
145 150 155 160

Asp Ala Glu Cys Pro Pro Ala His Thr Cys Xaa Arg Gly Xaa Pro Ala  
165 170 175

Cys Ser His Xaa Pro Thr Arg Xaa Ala Arg Leu Leu Thr Xaa Ala His  
180 185 190

Val Glu Cys Arg Leu Leu Thr Leu Pro Met Trp  
195 200

<210> 1144  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144

Lys	Val	Leu	Leu	Pro	Tyr	Leu	Cys	Ser	Ser	Phe	Pro	Met	Ala	Glu	Phe
1				5					10					15	
Cys	Asn	Tyr	Ile	Gln	Asn	Ile	Val	Tyr	Ile	Leu	Phe	Leu	Lys	Leu	Tyr
			20					25					30		
Tyr	Ile	Gly	Trp	Ile	Leu	Leu	Xaa	Trp	Gly	Thr	Gly	Ala	Tyr	Ile	Gln
		35					40					45			
Gly	Ser	Phe	Leu	Ser	Thr	Cys	Leu	Ser	Thr	Ile	Cys	Cys	Val		
	50					55					60				

<210> 1145  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1145

Asn	Glu	Ser	Leu	Thr	Gln	Phe	His	Ala	Thr	Phe	Cys	Leu	Phe	Ser	Lys
1				5					10					15	
Glu	Arg	Leu	Leu	Gly	Leu	Ser	Val	Thr	Arg	His	Val	Trp	Ile	Ala	Ser
			20					25					30		
His	Ile	His	Ile	Met	Pro	Gly	Ser	Pro	Gln	Pro	Thr	His	Val	Leu	Glu
		35					40					45			
Val	Ala	Thr	Cys	Gln	Val	Ser	Val	Phe	Ser	Leu	Asn	Ser	Lys	Trp	Val
	50					55					60				
Asn	His	Met	Asn	Ser	Thr	Gly	Pro	Cys	Glu	Asn	Gly	Val	Lys	Ala	Ser
65					70					75					80
Phe	Val	Pro	Phe	Ser	Ile	Ser	Leu	Thr	His	Met	Cys	Ser	Leu	Ser	Thr
				85					90					95	
Ala	Glu	Asp	Arg	Phe	Val	Cys	Ala	Leu							
		100						105							

&lt;210&gt; 1146

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (240)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1146

Lys	Glu	Thr	Leu	Glu	Thr	Ile	Ser	Asn	Glu	Glu	Gln	Thr	Pro	Leu	Leu
1				5					10					15	

Lys	Lys	Ile	Asn	Pro	Thr	Glu	Ser	Thr	Ser	Lys	Ala	Glu	Glu	Asn	Glu
			20					25						30	

Lys	Val	Asp	Ser	Lys	Val	Lys	Ala	Phe	Lys	Lys	Pro	Leu	Ser	Val	Phe
		35					40					45			

Lys	Gly	Pro	Leu	Leu	His	Ile	Ser	Pro	Ala	Glu	Glu	Leu	Tyr	Phe	Gly
	50					55					60				

Ser	Thr	Glu	Ser	Gly	Glu	Lys	Lys	Thr	Leu	Ile	Val	Leu	Thr	Asn	Val
65					70					75					80

Thr	Lys	Asn	Ile	Val	Ala	Phe	Lys	Val	Arg	Thr	Thr	Ala	Pro	Glu	Lys
			85						90					95	

Tyr	Arg	Val	Lys	Pro	Ser	Asn	Ser	Ser	Cys	Asp	Pro	Gly	Ala	Ser	Val
			100					105					110		

Asp	Ile	Val	Val	Ser	Pro	His	Gly	Gly	Leu	Thr	Val	Ser	Ala	Gln	Asp
		115					120					125			

Arg	Phe	Leu	Ile	Met	Ala	Ala	Glu	Met	Glu	Gln	Ser	Ser	Gly	Thr	Gly
	130					135						140			

Pro	Ala	Glu	Leu	Thr	Gln	Phe	Trp	Lys	Glu	Val	Pro	Arg	Asn	Lys	Val
145					150					155					160

Met	Glu	His	Arg	Leu	Arg	Cys	His	Thr	Val	Glu	Ser	Ser	Lys	Pro	Asn
			165						170					175	

Thr	Leu	Thr	Leu	Lys	Asp	Asn	Ala	Phe	Asn	Met	Ser	Asp	Lys	Thr	Ser
			180					185					190		

Glu	Asp	Ile	Cys	Leu	Gln	Leu	Ser	Arg	Leu	Leu	Glu	Ser	Asn	Arg	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

195                      200                      205  
 Leu Glu Asp Gln Val Gln Arg Cys Ile Trp Phe Gln Gln Leu Leu Leu  
     210                      215                      220  
 Ser Leu Thr Met Leu Leu Leu Ala Phe Val Thr Ser Phe Phe Tyr Xaa  
     225                      230                      235                      240  
 Leu Tyr Ser

<210> 1147  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1147  
 Ser Val Lys Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe  
     1                      5                      10                      15  
 Leu Tyr His Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser  
                     20                      25                      30  
 Gly Thr Ile Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val  
                     35                      40                      45  
 Ile Ser His Ser Asn Gln Glu Ser Arg Glu  
                     50                      55

<210> 1148  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148  
 Xaa Xaa Asn Gly Leu Gly Ser Val Lys Asp Gly Glu Pro His Phe Val  
     1                      5                      10                      15



Val Val His Cys Thr Gly Tyr Ile Lys Ala Trp Pro Gln Gln Val Phe  
                   20                  25                  30

Pro Ser Gln Met Met Thr Gln Pro Glu Val Phe Gln Glu Met Leu Ser  
                   35                  40                  45

Met Leu Gly Asp Gln Ser Asn Ser Tyr Asn Asn Glu Glu Phe Pro Asp  
                   50                  55                  60

Leu Thr Met Phe Pro Pro Phe Ser Glu  
                   65                  70

<210> 1149

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149

Val Lys Trp Val Val Ser Phe Asn Ile Gln Asn Asn His Met Xaa Tyr  
   1                  5                  10                  15

Xaa Leu Pro Leu Ser Phe Pro Phe Val Gln Met Arg Lys Val Arg Leu  
                   20                  25                  30

Thr Glu Val Asn Trp Pro Arg Val Pro Gln Leu Val Ser Ala Glu Val  
                   35                  40                  45

Gly Xaa His Asn Gln Ile Cys Ser Ala Xaa Asn Leu Cys Gln Ile Ser

50

55

60

Ser Lys Val Leu Gln Arg Ala Arg His Val Tyr Phe Ile Pro Ile  
 65 70 75

&lt;210&gt; 1150

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1150

His Ser Glu Ile Gln Ser Val Cys Leu Thr Arg Leu Phe Asp Phe Lys  
 1 5 10 15

Ile Phe Cys Arg Lys Cys Phe Glu Asn Phe Glu Tyr Leu Lys Met Ala  
 20 25 30

Gly Val Val Leu His Phe Ala Ser Cys Ser Asp Thr Leu Phe Tyr Leu  
 35 40 45

Tyr Arg Tyr Ser Glu Phe Leu Phe Phe Ser Thr Cys Cys Thr Leu Ser  
 50 55 60

Lys Ala Lys Arg Lys Leu Ile Leu Gly Ser Arg Lys Ala Glu Ala Phe  
 65 70 75 80

Gly Glu Met Glu Thr Arg Met Cys Lys Asn Glu Thr Thr Thr Ser Arg  
 85 90 95

Ile Lys Lys Lys Lys Cys Gln Ser Ser Arg Val Leu Ser Asp Val Gln  
 100 105 110

Glu Gly Gly Gly Ile Ile Phe Met Glu His Ile Leu Trp Asn Thr Ala  
 115 120 125

Ile Arg Met Ser Glu Lys Leu Ile Cys Ser  
 130 135

&lt;210&gt; 1151

&lt;211&gt; 489

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1151

Arg	Pro	Arg	Thr	Arg	Ala	Pro	Arg	Gly	Ala	Arg	Ser	Ala	Cys	Thr	Arg
1				5					10					15	
Gly	Xaa	Arg	Arg	Arg	Pro	Val	Pro	Ser	Leu	Lys	Val	Leu	Ser	Pro	Phe
			20					25					30		
Ala	Val	Val	Gln	Met	Arg	Lys	Lys	Trp	Lys	Met	Gly	Gly	Met	Lys	Tyr
		35					40					45			
Ile	Phe	Ser	Leu	Leu	Phe	Phe	Leu	Leu	Leu	Glu	Gly	Gly	Lys	Thr	Glu
	50					55						60			
Gln	Val	Lys	His	Ser	Glu	Thr	Tyr	Cys	Met	Phe	Gln	Asp	Lys	Lys	Tyr
65					70					75					80
Arg	Val	Gly	Glu	Arg	Trp	His	Pro	Tyr	Leu	Glu	Pro	Tyr	Gly	Leu	Val
				85					90					95	
Tyr	Cys	Val	Asn	Cys	Ile	Cys	Ser	Glu	Asn	Gly	Asn	Val	Leu	Cys	Ser
		100						105					110		
Arg	Val	Arg	Cys	Pro	Asn	Val	His	Cys	Leu	Ser	Pro	Val	His	Ile	Pro
		115					120						125		
His	Leu	Cys	Cys	Pro	Arg	Cys	Pro	Glu	Asp	Ser	Leu	Pro	Pro	Val	Asn
	130					135						140			
Asn	Lys	Val	Thr	Ser	Lys	Ser	Cys	Glu	Tyr	Asn	Gly	Thr	Thr	Tyr	Gln
145					150					155					160
His	Gly	Glu	Leu	Phe	Val	Ala	Glu	Gly	Leu	Phe	Gln	Asn	Arg	Gln	Pro
			165						170					175	
Asn	Gln	Cys	Thr	Gln	Cys	Ser	Cys	Ser	Glu	Gly	Asn	Val	Tyr	Cys	Gly
		180						185					190		
Leu	Lys	Thr	Cys	Pro	Lys	Leu	Thr	Cys	Ala	Phe	Pro	Val	Ser	Val	Pro
		195					200					205			
Asp	Ser	Cys	Cys	Arg	Val	Cys	Arg	Gly	Asp	Gly	Glu	Leu	Ser	Trp	Glu
	210					215					220				
His	Ser	Asp	Gly	Asp	Ile	Phe	Arg	Gln	Pro	Ala	Asn	Arg	Glu	Ala	Arg
225					230					235					240
His	Ser	Tyr	His	Arg	Ser	His	Tyr	Asp	Pro	Pro	Pro	Ser	Arg	Gln	Ala
			245					250						255	
Gly	Gly	Leu	Ser	Arg	Phe	Pro	Gly	Ala	Arg	Ser	His	Arg	Gly	Ala	Leu

260	265	270
Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn 275 280 285		
Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr 290 295 300		
Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val 305 310 315 320		
Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys 325 330 335		
Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp 340 345 350		
Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe 355 360 365		
Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu 370 375 380		
Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu 385 390 395 400		
Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys 405 410 415		
Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe 420 425 430		
Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln 435 440 445		
Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser 450 455 460		
Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr 465 470 475 480		
Leu Glu Arg Ser Glu Lys Gly His Cys 485		

&lt;210&gt; 1152

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152

Ile Asn Phe Leu Thr Ile Gly Phe Tyr Gly Val Gly His Asn Phe Trp  
1 5 10 15

Leu Tyr Phe Lys Asn Phe Phe Leu Gly Gly Gly Val Leu Gly Ser Gly  
20 25 30

His Gln Gly Arg Gly Val Ala Trp Gly Xaa Asp Pro Gly Ala Ser Pro  
35 40 45

<210> 1153

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1153

Thr Ile Val Arg Asp Gly Ser Asn Asp Val Ile Cys Glu Asn Ser His  
1 5 10 15

His Leu Pro Val Arg Gln Asn Leu Leu Lys Pro Pro Glu Ser Asn Leu  
20 25 30

Asp Tyr Ile Arg Pro Phe Phe Thr His Lys Lys Ile Leu Tyr Gly Ile  
35 40 45

<210> 1154

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (314)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154

Ser Lys Lys Leu Thr Arg Pro Leu Val Met Lys Thr Gly Arg Pro Ala  
1 5 10 15

Gly Lys Gly Ser Ile Thr Ile Ser Ala Glu Glu Ile Lys Asp Asn Arg  
20 25 30

Val Val Leu Phe Glu Met Glu Ala Arg Lys Leu Asp Asn Lys Asp Leu  
35 40 45

Phe Gly Lys Ser Asp Pro Tyr Leu Glu Phe His Lys Gln Thr Ser Asp  
50 55 60

Gly Asn Trp Leu Met Val His Arg Thr Glu Val Val Lys Asn Asn Leu  
65 70 75 80

Asn Pro Val Trp Xaa Pro Phe Xaa Ile Ser Leu Asn Ser Leu Cys Xaa  
85 90 95

Gly Asp Met Asp Lys Thr Ile Lys Val Glu Cys Tyr Asp Tyr Asp Asn  
100 105 110

Asp Gly Ser His Asp Leu Ile Gly Thr Phe Gln Thr Thr Met Thr Lys  
115 120 125

Leu Lys Glu Ala Ser Arg Ser Ser Pro Val Glu Xaa Glu Cys Ile Asn  
130 135 140

Glu Lys Lys Arg Gln Lys Lys Lys Ser Tyr Lys Asn Ser Gly Val Ile  
145 150 155 160

Ser Val Lys Gln Cys Glu Ile Thr Val Glu Cys Thr Phe Leu Asp Tyr

165 170 175  
Ile Met Gly Gly Cys Gln Leu Asn Phe Thr Val Gly Val Asp Phe Thr  
180 185 190  
Gly Ser Asn Gly Asp Pro Arg Ser Pro Asp Ser Leu His Tyr Ile Ser  
195 200 205  
Pro Asn Gly Val Asn Glu Tyr Leu Thr Ala Leu Trp Ser Val Gly Leu  
210 215 220  
Val Ile Gln Asp Tyr Asp Ala Asp Lys Met Phe Pro Ala Phe Gly Phe  
225 230 235 240  
Gly Ala Gln Ile Pro Pro Gln Trp Gln Val Ser His Glu Phe Pro Met  
245 250 255  
Asn Phe Asn Pro Ser Asn Pro Tyr Cys Asn Gly Ile Gln Gly Ile Val  
260 265 270  
Glu Ala Tyr Arg Ser Cys Leu Pro Gln Ile Lys Leu Tyr Gly Pro Thr  
275 280 285  
Asn Phe Ser Pro Ile Ile Asn His Val Ala Arg Phe Ala Ala Ala Ala  
290 295 300  
Thr Gln Gln Gln Thr Ala Ser Gln Tyr Xaa Val Leu Leu Ile Ile Thr  
305 310 315 320  
Asp Gly Val Ile Thr Asp Leu Asp Glu Thr Arg Gln Ala Ile Val Asn  
325 330 335  
Ala Ser Ser Cys Leu Cys Pro Ser  
340

&lt;210&gt; 1155

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1155

Tyr Phe Ile Glu Gly Leu Cys Ala Lys Asn Tyr Ala Tyr Leu Tyr Ile  
1 5 10 15  
Gly Gln Leu Ser Leu Ile Ile Tyr Leu Leu Lys Leu His Val Tyr His  
20 25 30  
Ile Ser Leu Ser Gly His Ile Gln Cys His Val Asp Val Pro Leu Ser  
35 40 45

Phe Ile Glu Lys Leu Pro His Ser Pro Cys Leu Leu Phe Ser Ala Met  
 50 55 60  
 Pro Gln Gly Ser Glu Leu Ser Thr Thr Asp Ser Cys Gly Phe Ser Glu  
 65 70 75 80  
 Ala Ala His Cys Gln Gly Gln Ala Glu Arg Gly Pro Ala Cys Cys Gly  
 85 90 95  
 Gly Cys Leu Ala Gln Met Ser Ile Tyr Leu Pro Pro Ser His Leu Ala  
 100 105 110  
 Ser Cys Pro Leu Asp Met Cys Cys  
 115 120

<210> 1156  
 <211> 469  
 <212> PRT  
 <213> Homo sapiens

<400> 1156  
 Gly Gly Trp Arg Trp Lys Leu Arg Glu Ser Gly Ala Ile Ala Pro Arg  
 1 5 10 15  
 Asp Ser Gln Ser Arg Pro Leu Gln Ser Leu Arg Gln Leu Ala Leu Arg  
 20 25 30  
 Val Gly Val Ala Pro Ala Ala Ala Met Ser Gly Gly Val Tyr Gly Gly  
 35 40 45  
 Asp Glu Val Gly Ala Leu Val Phe Asp Ile Gly Ser Tyr Thr Val Arg  
 50 55 60  
 Ala Gly Tyr Ala Gly Glu Asp Cys Pro Lys Val Asp Phe Pro Thr Ala  
 65 70 75 80  
 Ile Gly Met Val Val Glu Arg Asp Asp Gly Ser Thr Leu Met Glu Ile  
 85 90 95  
 Asp Gly Asp Lys Gly Lys Gln Gly Gly Pro Thr Tyr Tyr Ile Asp Thr  
 100 105 110  
 Asn Ala Leu Arg Val Pro Arg Glu Asn Met Glu Ala Ile Ser Pro Leu  
 115 120 125  
 Lys Asn Gly Met Val Glu Asp Trp Asp Ser Phe Gln Ala Ile Leu Asp  
 130 135 140



His Thr Tyr Lys Met His Val Lys Ser Glu Ala Ser Leu His Pro Val  
 145 150 155 160

Leu Met Ser Glu Ala Pro Trp Asn Thr Arg Ala Lys Arg Glu Lys Leu  
 165 170 175

Thr Glu Leu Met Phe Glu His Tyr Asn Ile Pro Ala Phe Phe Leu Cys  
 180 185 190

Lys Thr Ala Val Leu Thr Ala Phe Ala Asn Gly Arg Ser Thr Gly Leu  
 195 200 205

Ile Leu Asp Ser Gly Ala Thr His Thr Thr Ala Ile Pro Val His Asp  
 210 215 220

Gly Tyr Val Leu Gln Gln Gly Ile Val Lys Ser Pro Leu Ala Gly Asp  
 225 230 235 240

Phe Ile Thr Met Gln Cys Arg Glu Leu Phe Gln Glu Met Asn Ile Glu  
 245 250 255

Leu Val Pro Pro Tyr Met Ile Ala Ser Lys Glu Ala Val Arg Glu Gly  
 260 265 270

Ser Pro Ala Asn Trp Lys Arg Lys Glu Lys Leu Pro Gln Val Thr Arg  
 275 280 285

Ser Trp His Asn Tyr Met Cys Asn Cys Val Ile Gln Asp Phe Gln Ala  
 290 295 300

Ser Val Leu Gln Val Ser Asp Ser Thr Tyr Asp Glu Gln Val Ala Ala  
 305 310 315 320

Gln Met Pro Thr Val His Tyr Glu Phe Pro Asn Gly Tyr Asn Cys Asp  
 325 330 335

Phe Gly Ala Glu Arg Leu Lys Ile Pro Glu Gly Leu Phe Asp Pro Ser  
 340 345 350

Asn Val Lys Gly Leu Ser Gly Asn Thr Met Leu Gly Val Ser His Val  
 355 360 365

Val Thr Thr Ser Val Gly Met Cys Asp Ile Asp Ile Arg Pro Gly Leu  
 370 375 380

Tyr Gly Ser Val Ile Val Ala Gly Gly Asn Thr Leu Ile Gln Ser Phe  
 385 390 395 400

Thr Asp Arg Leu Asn Arg Glu Leu Ser Gln Lys Thr Pro Pro Ser Met  
 405 410 415

Arg Leu Lys Leu Ile Ala Asn Asn Thr Thr Val Glu Arg Arg Phe Ser  
420 425 430

Ser Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Gly Thr Phe Gln Gln  
435 440 445

Met Trp Ile Ser Lys Gln Glu Tyr Glu Glu Gly Gly Lys Gln Cys Val  
450 455 460

Glu Arg Lys Cys Pro  
465

<210> 1157

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1157

Thr Ala Leu Cys Pro Arg Ile His Glu Val Pro Leu Leu Glu Pro Leu  
1 5 10 15

Val Cys Xaa Lys Ile Ala Gln Glu Arg Leu Thr Val Leu Leu Phe Leu  
20 25 30

Glu Asp Cys Ile Ile Thr Ala Cys Gln Glu Gly Leu Ile Cys Thr Trp  
35 40 45

Xaa Arg Pro Gly Lys Ala Phe Thr Asp Glu Glu Thr Glu Ala Gln Thr  
50 55 60

Gly Glu Gly Ser Trp Pro Arg Ser Pro Ser Lys Ser Val Val Glu Gly  
65 70 75 80

Ile Ser Ser Gln Pro Gly Asn Ser Pro Ser Gly Thr Val Val  
85 90

<210> 1158

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1158

Leu Ser Pro Gln Trp Thr His Leu Leu Val Lys Gly Ala Val Val Leu  
1 5 10 15

Cys Gly Ser Gln Phe Thr Ser Phe Pro Lys Ile Gln Cys Asp His Pro  
20 25 30

Val Asn Gly His Thr Ser Ser Glu Ile Asn Phe Gln Asn Leu Cys Ser  
35 40 45

Ser Ser Tyr Pro Leu Arg Val Ile Met Ala Asn Lys Gln Lys Ala Leu  
50 55 60

Val Gln Ala Pro Pro Asn Thr Leu Asn Leu Asn Leu Asn Met Leu Lys  
65 70 75 80

Phe Glu Asn Lys Glu Thr Phe Phe Ile Ser Leu Ser Gly Leu Ser Leu  
85 90 95

Val Leu Met Gly Leu Leu Met Ala Phe Gln Ser Val Ala Glu Ala Ile  
100 105 110

Ile Phe

<210> 1159

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1159

Pro Trp Gly Ala Trp Arg Gln Gly Ala Arg Ala Ala Gln Ser Pro Phe  
1 5 10 15

Ser Ile Pro Asn Ser Ser Ser Val Pro Tyr Gly Ser Gln Asp Ser Val

20 25 30

His Ser Ser Pro Glu Asp Gly Gly Gly Gly Xaa Asp Arg Xaa Gly Gly  
35 40 45

Thr Gly Gly Pro Arg Leu Val Ile Gly Ser Leu Pro Ala His Leu Ser  
50 55 60

Pro His Met Phe Gly Gly Phe Lys Cys Pro Val Cys Ser Lys Phe Val  
65 70 75 80

Ser Ser Asp Glu Met Asp Leu His Leu Val Met Cys Leu Thr Lys Pro  
85 90 95

Arg Ile Thr Tyr Asn Glu Asp Val Leu Ser Lys Asp Ala Gly Glu Cys  
100 105 110

Ala Ile Cys Leu Glu Glu Leu Gln Gln Gly Asp Thr Ile Ala Arg Leu  
115 120 125

Pro Cys Leu Cys Ile Tyr His Lys Gly Cys Ile Asp Glu Trp Phe Glu  
130 135 140

Val Asn Arg Ser Cys Pro Glu His Pro Ser Asp  
145 150 155

<210> 1160

<211> 337

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1160

Cys Leu Gly Cys Lys Pro Asp Gln Pro Leu Arg Ala Glu Gly Arg Leu  
1 5 10 15

Leu Ala Pro Ser Gly Asn Pro Ala Pro Ser Pro Gly Ser Glu Arg Leu  
20 25 30

Ala Gly Asp Asp Thr Xaa Ser Ala Pro Ala Ala Pro Ser Xaa Gly Cys  
35 40 45

Gly Lys Arg Arg Glu Ser Asp Ala Gly Ala Gly Gly Glu Arg Ala Ser  
50 55 60

Val Arg Thr Gly Ser Gly Arg Arg Gly Gly Ala Asn His Gly Arg Gly  
65 70 75 80

Gln Arg Ala Asp Pro Ala Glu Pro Pro Ala Ala Gln Arg Arg Arg Ala  
85 90 95

Leu Pro Tyr Arg Arg His Gly Gly Thr Ala Ser Gly Lys Ser Ser Val  
100 105 110

Cys Ala Lys Ile Val Gln Leu Leu Gly Gln Asn Glu Val Asp Tyr Arg  
115 120 125

Gln Lys Gln Val Val Ile Leu Ser Gln Asp Ser Phe Tyr Arg Val Leu  
130 135 140

Thr Ser Glu Gln Lys Ala Lys Ala Leu Lys Xaa Gln Phe Asn Phe Asp  
145 150 155 160

His Pro Asp Ala Phe Asp Asn Glu Xaa Ile Leu Lys Thr Leu Lys Glu  
165 170 175

Ile Thr Glu Gly Lys Thr Val Gln Ile Pro Val Tyr Asp Phe Val Ser  
180 185 190

His Ser Arg Lys Glu Glu Thr Val Thr Val Tyr Pro Ala Asp Val Val  
195 200 205

Leu Phe Glu Gly Ile Leu Ala Phe Tyr Ser Gln Glu Val Arg Asp Leu  
210 215 220

Phe Gln Met Lys Leu Phe Val Asp Thr Asp Ala Asp Thr Arg Leu Ser  
225 230 235 240

Arg Arg Val Leu Arg Asp Ile Ser Glu Arg Gly Arg Asp Leu Glu Gln  
245 250 255

Ile Leu Ser Gln Tyr Ile Thr Phe Val Lys Pro Ala Phe Glu Glu Phe  
260 265 270  
Cys Leu Pro Thr Lys Lys Tyr Ala Asp Val Ile Ile Pro Arg Gly Ala  
275 280 285  
Asp Asn Leu Val Ala Ile Asn Leu Ile Val Gln His Ile Gln Asp Ile  
290 295 300  
Leu Asn Gly Gly Pro Ser Lys Arg Gln Thr Asn Gly Cys Leu Asn Gly  
305 310 315 320  
Tyr Thr Pro Ser Arg Lys Arg Gln Ala Ser Glu Ser Ser Ser Arg Pro  
325 330 335

His

<210> 1161  
<211> 330  
<212> PRT  
<213> Homo sapiens

<400> 1161  
Ala Arg Gly Met Phe Gly Leu Gly Asn Glu Phe Lys Pro Leu Asn Val  
1 5 10 15  
Gln Glu Arg Glu Ala Gln Phe Gly Thr Thr Ala Glu Ile Tyr Ala Tyr  
20 25 30  
Arg Glu Glu Gln Asp Phe Gly Ile Glu Ile Val Lys Val Lys Ala Ile  
35 40 45  
Gly Arg Gln Arg Phe Lys Val Leu Glu Leu Arg Thr Gln Ser Asp Gly  
50 55 60  
Ile Gln Gln Ala Lys Val Gln Ile Leu Pro Glu Cys Val Leu Pro Ser  
65 70 75 80  
Thr Met Ser Ala Val Gln Leu Glu Ser Leu Asn Lys Cys Gln Ile Phe  
85 90 95  
Pro Ser Lys Pro Val Ser Arg Glu Asp Gln Cys Ser Tyr Lys Trp Trp  
100 105 110  
Gln Lys Tyr Gln Lys Arg Lys Phe His Cys Ala Asn Leu Thr Ser Trp  
115 120 125  
Pro Arg Trp Leu Tyr Ser Leu Tyr Asp Ala Glu Thr Leu Met Asp Arg

130 135 140

Ile Lys Lys Gln Leu Arg Glu Trp Asp Glu Asn Leu Lys Asp Asp Ser  
145 150 155 160

Leu Pro Ser Asn Pro Ile Asp Phe Ser Tyr Arg Val Ala Ala Cys Leu  
165 170 175

Pro Ile Asp Asp Val Leu Arg Ile Gln Leu Leu Lys Ile Gly Ser Ala  
180 185 190

Ile Gln Arg Leu Arg Cys Glu Leu Asp Ile Met Asn Lys Cys Thr Ser  
195 200 205

Leu Cys Cys Lys Gln Cys Gln Glu Thr Glu Ile Thr Thr Lys Asn Glu  
210 215 220

Ile Phe Ser Leu Ser Leu Cys Gly Pro Met Ala Ala Tyr Val Asn Pro  
225 230 235 240

His Gly Tyr Val His Glu Thr Leu Thr Val Tyr Lys Ala Cys Asn Leu  
245 250 255

Asn Leu Ile Gly Arg Pro Ser Thr Glu His Ser Trp Phe Pro Gly Tyr  
260 265 270

Ala Trp Thr Val Ala Gln Cys Lys Ile Cys Ala Ser His Ile Gly Trp  
275 280 285

Lys Phe Thr Ala Thr Lys Lys Asp Met Ser Pro Gln Lys Phe Trp Gly  
290 295 300

Leu Thr Arg Ser Ala Leu Leu Pro Thr Ile Pro Asp Thr Glu Asp Glu  
305 310 315 320

Ile Ser Pro Asp Lys Val Ile Leu Cys Leu  
325 330

<210> 1162

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (148)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (165)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1162

Cys	Arg	Lys	Thr	Ala	Gln	Pro	Thr	Ala	Ala	Glu	Met	Lys	Tyr	Lys	Asn
1				5					10					15	

Leu	Met	Ala	Arg	Ala	Leu	Tyr	Asp	Asn	Val	Pro	Glu	Cys	Ala	Glu	Glu
			20					25					30		

Leu	Ala	Phe	Arg	Lys	Gly	Asp	Ile	Leu	Thr	Val	Ile	Glu	Gln	Asn	Thr
		35					40					45			

Gly	Gly	Leu	Glu	Gly	Trp	Trp	Leu	Cys	Ser	Leu	His	Gly	Arg	Gln	Gly
		50				55						60			

Ile	Val	Pro	Gly	Asn	Arg	Val	Lys	Leu	Leu	Ile	Gly	Pro	Met	Gln	Glu
65					70					75					80

Thr	Ala	Ser	Ser	His	Glu	Gln	Pro	Ala	Ser	Gly	Leu	Met	Gln	Gln	Thr
				85					90					95	

Phe	Gly	Gln	Gln	Lys	Leu	Tyr	Gln	Val	Pro	Asn	Pro	Thr	Gly	Leu	Leu
			100					105					110		

Pro	Pro	Arg	His	Pro	Phe	Leu	Pro	Lys	Val	Pro	Thr	Leu	Ser	Leu	Thr
		115					120					125			

Gln	Lys	Ile	Lys	Gly	Glu	Ile	Phe	Thr	Gln	Arg	Phe	Pro	Gln	Leu	Xaa
	130					135					140				

Ala	Gln	Arg	Xaa	Thr	Pro	Lys	Gly	Xaa	Lys	Gly	Gly	Val	Leu	Phe	Arg
145					150					155					160

Val	Ala	Pro	Pro	Xaa
				165

&lt;210&gt; 1163



<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1163

Phe Leu Asn Arg Glu Leu Ile Val Lys Ser Ser Met Ala Thr Gly Gly  
1 5 10 15

Gly Pro Phe Glu Asp Gly Met Asn Asp Gln Asp Leu Pro Asn Trp Ser  
20 25 30

Asn Glu Asn Val Asp Asp Arg Leu Asn Asn Met Asp Trp Gly Ala Gln  
35 40 45

Gln Lys Lys Ala Asn Arg Ser Ser Glu Lys Asn Lys Lys Lys Phe Gly  
50 55 60

Val Glu Ser Asp Lys Arg Val Thr Asn Asp Ile Ser Pro Glu Ser Ser  
65 70 75 80

Pro Gly Val Gly Arg Arg Arg Thr Lys Thr Pro His Thr Phe Pro His  
85 90 95

Ser Arg Tyr Met Ser Gln Met Ser Val Pro Glu Gln Ala Glu Leu Glu  
100 105 110

Lys Leu Lys Gln Arg Ile Asn Phe Ser Asp Leu Asp Gln Arg Ser Ile  
115 120 125

Gly Ser Asp Ser Gln Gly Arg Ala Thr Ala Ala Asn Asn Lys Arg Gln  
130 135 140

Leu Ser Glu Asn Arg Lys Pro Phe Asn Phe Leu Pro Met Gln Ile Asn  
145 150 155 160

Thr Asn Lys Glu Gln Arg Cys Ile Leu Gln Val Pro Gln Thr Glu Glu  
165 170 175

Thr Val Gly Phe Ser Thr Val Leu Lys Xaa Cys Phe Ala Phe Trp Phe  
180 185 190

Leu Ser Asn  
195

&lt;210&gt; 1164

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1164

Arg Arg Pro Ser Ala Arg Arg Glu Leu Gly Lys Gly Arg Gln Arg Arg  
1 5 10 15

Arg Arg Gln Arg Gln Arg Gln Ser Pro Val Pro Arg Pro Ser Asp Arg  
20 25 30

Pro Ala Gly Leu Gly Leu Ala Lys Pro Ala Arg Arg Ala Leu Pro Thr  
35 40 45

Pro Glu Pro Gly Arg Lys Ser Ser Asp Ser Ser Leu Ala Ser Pro Gly  
50 55 60

Ala Ala Leu Gln Thr Gly Pro Val Val Arg Gly Ser Gly Ala Asp Pro  
65 70 75 80

Glu Ala Gly Phe Ala Gln Pro Pro Thr Arg Ala Gly Pro Leu Glu Gly  
85 90 95

Ala Phe Asn Ser Arg Thr Arg Gln Ala Thr Met Thr Glu Asn Ser Thr  
100 105 110

Ser Ala Pro Ala Ala Lys Pro Lys Arg Ala Lys Ala Ser Lys Lys Ser  
115 120 125

Thr Asp His Pro Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln Ala  
130 135 140

Glu Lys Asn Arg Ala Gly Ser Ser Arg Gln Ser Ile Gln Lys Tyr Ile  
145 150 155 160

Lys Ser His Tyr Lys Val Gly Glu Asn Ala Asp Ser Gln Ile Lys Leu  
165 170 175

Ser Ile Lys Arg Leu Val Thr Thr Gly Val Leu Lys Gln Thr Lys Gly  
180 185 190

Val Gly Ala Ser Gly Ser Phe Arg Leu Ala Lys Ser Asp Glu Pro Lys  
195 200 205

Lys Ser Val Ala Phe Lys Lys Thr Lys Lys Glu Ile Lys Lys Val Ala  
210 215 220

Thr Pro Lys Lys Ala Ser Lys Pro Lys Lys Ala Ala Ser Lys Ala Pro  
225 230 235 240

Thr Lys Lys Pro Lys Ala Thr Pro Val Lys Lys Ala Lys Lys Lys Leu  
245 250 255

Ala Ala Thr Pro Lys Lys Ala Lys Lys Pro Lys Thr Val Lys Ala Lys  
260 265 270

Pro Val Lys Ala Ser Lys Pro Lys Lys Ala Lys Pro Val Lys Pro Lys  
275 280 285

Ala Lys Ser Ser Ala Lys Arg Ala Gly Lys Lys Lys  
290 295 300

<210> 1165

<211> 150

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (115)**

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1165

Ser Thr His Ala Ser Ala His Ala Ser Gly Lys Gln Glu Ile Val Asp  
1 5 10 15

Pro Pro Ser Lys Met Glu Asp Gly Lys Pro Val Trp Ala Pro His Pro  
20 25 30

Thr Asp Gly Phe Gln Met Gly Asn Ile Val Asp Ile Gly Pro Asp Ser  
35 40 45

Leu Thr Ile Glu Pro Leu Asn Gln Lys Gly Lys Thr Phe Leu Ala Leu  
50 55 60

Ile	Asn	Gln	Val	Phe	Pro	Ala	Glu	Glu	Asp	Ser	Lys	Lys	Asp	Val	Glu
65					70					75					80

Asp Asn Cys Ser Leu Met Tyr Leu Asn Glu Ala Thr Leu Leu His Asn  
85 90 95

Ile Lys Val Arg Tyr Ser Lys Asp Arg Ile Tyr Thr Tyr Val Ala Asn  
100 105 110

Ile Leu Xaa Ala Val Asn Pro Tyr Phe Asp Ile Pro Lys Ile Tyr Leu  
115 120 125

Gln Ser Ile Lys Ser Tyr Gln Gly Lys Ser Leu Gly Thr Arg Pro Pro  
130 135 140

Pro Gly Leu Cys Asn Cys  
145 150

<210> 1166

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166

Ala Ile Trp Pro Leu Arg Gly Leu Leu Arg Tyr Arg Gln Phe Cys Gly  
1 5 10 15

Ala Ala Ser Ala Ala Pro Arg Arg Ser Asn Met Leu Arg Ile Pro Leu  
20 25 30

Arg Arg Ala Leu Val Xaa Leu Ser Asn Lys Ser Ser Lys Gly Cys Val  
35 40 45

Arg Thr Thr Ala Thr Ala Ala Ser Asn Leu Ile Glu Val Phe Val Asp  
50 55 60

Gly Gln Ser Val Met Val Glu Pro Gly Thr Thr Val Leu Gln Ala Cys  
65 70 75 80

Glu Lys Val Gly

<210> 1167

<211> 348

<212> PRT

<213> Homo sapiens

<400> 1167

Leu Ile Phe Cys Gly Cys Trp Leu Phe Ala Ser Leu Thr Val Met Glu  
1 5 10 15

Ala Ala His Phe Phe Glu Gly Thr Glu Lys Leu Leu Glu Val Trp Phe  
20 25 30

Ser Arg Gln Gln Pro Asp Ala Asn Gln Gly Ser Gly Asp Leu Arg Thr  
35 40 45

Ile Pro Arg Ser Glu Trp Asp Ile Leu Leu Lys Asp Val Gln Cys Ser  
 50 55 60

Ile Ile Ser Val Thr Lys Thr Asp Lys Gln Glu Ala Tyr Val Leu Ser  
 65 70 75 80

Glu Ser Ser Met Phe Val Ser Lys Arg Arg Phe Ile Leu Lys Thr Cys  
 85 90 95

Gly Thr Thr Leu Leu Leu Lys Ala Leu Val Pro Leu Leu Lys Leu Ala  
 100 105 110

Arg Asp Tyr Ser Gly Phe Asp Ser Ile Gln Ser Phe Phe Tyr Ser Arg  
 115 120 125

Lys Asn Phe Met Lys Pro Ser His Gln Gly Tyr Pro His Arg Asn Phe  
 130 135 140

Gln Glu Glu Ile Glu Phe Leu Asn Ala Ile Phe Pro Asn Gly Ala Ala  
 145 150 155 160

Tyr Cys Met Gly Arg Met Asn Ser Asp Cys Trp Tyr Leu Tyr Thr Leu  
 165 170 175

Asp Phe Pro Glu Ser Arg Val Ile Ser Gln Pro Asp Gln Thr Leu Glu  
 180 185 190

Ile Leu Met Ser Glu Leu Asp Pro Ala Val Met Asp Gln Phe Tyr Met  
 195 200 205

Lys Asp Gly Val Thr Ala Lys Asp Val Thr Arg Glu Ser Gly Ile Arg  
 210 215 220

Asp Leu Ile Pro Gly Ser Val Ile Asp Ala Thr Met Phe Asn Pro Cys  
 225 230 235 240

Gly Tyr Ser Met Asn Gly Met Lys Ser Asp Gly Thr Tyr Trp Thr Ile  
 245 250 255

His Ile Thr Pro Glu Pro Glu Phe Ser Tyr Val Ser Phe Glu Thr Asn  
 260 265 270

Leu Ser Gln Thr Ser Tyr Asp Asp Leu Ile Arg Lys Val Val Glu Val  
 275 280 285

Phe Lys Pro Gly Lys Phe Val Thr Thr Leu Phe Val Asn Gln Ser Ser  
 290 295 300

Lys Cys Arg Thr Val Leu Ala Ser Pro Gln Lys Ile Glu Gly Phe Lys  
 305 310 315 320

Arg Leu Asp Cys Gln Ser Ala Met Phe Asn Asp Tyr Asn Phe Val Phe  
325 330 335

Thr Ser Phe Ala Lys Lys Gln Gln Gln Gln Gln Ser  
340 345

<210> 1168

**<211> 90**

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Ser Ser Gln Arg Leu Gln Gly Arg Ala Arg Ala Val Leu Ser Pro Pro  
1 5 10 15

Ala Pro Xaa Ser Asn Val Gly Thr Gly Glu Lys Lys Val Thr Glu Ala  
20 25 30

Trp Ile Ser Glu Asp Glu Asn Ser His Arg Thr Thr Ser Asp Arg Leu  
35 40 45

Thr Val Met Glu Leu Pro Ser Pro Glu Ser Glu Glu Val His Glu Pro  
50 55 60

Arg Leu Gly Glu Leu Leu Gly Asn Pro Glu Gly Gln Ser Leu Gly Ser  
65 70 75 80

Ser Pro Ser Gln Asp Arg Gly Cys Asn Arg  
85 90

<210> 1169

<211> 277

<212> PRT

<213> Homo sapiens

<400> 1169

Arg Ser Thr Arg Trp Arg Pro Lys Val Met Trp His Leu Leu Arg Arg  
1 5 10 15

Tyr Met Ala Ser Arg Leu His Ser Leu Arg Met Gly Gly Tyr Leu Phe  
20 25 30

Ser Gly Ser Gln Ala Pro Gln Leu Ser Pro Ala Leu Leu Arg Ala Leu  
35 40 45

Gly Gln Lys Cys Pro Asn Leu Lys Arg Leu Cys Leu His Val Ala Asp  
50 55 60

Leu Ser Met Val Pro Ile Thr Ser Leu Pro Ser Thr Leu Arg Thr Leu  
65 70 75 80

Glu Leu His Ser Cys Glu Ile Ser Met Ala Trp Leu His Lys Gln Gln  
85 90 95

Asp Pro Thr Val Leu Pro Leu Leu Glu Cys Ile Val Leu Asp Arg Val  
100 105 110

Pro Ala Phe Arg Asp Glu His Leu Gln Gly Leu Thr Arg Phe Arg Ala  
115 120 125

Leu Arg Ser Leu Val Leu Gly Gly Thr Tyr Arg Val Thr Glu Thr Gly  
130 135 140

Leu Asp Ala Gly Leu Gln Glu Leu Ser Tyr Leu Gln Arg Leu Glu Val  
145 150 155 160

Leu Gly Cys Thr Leu Ser Ala Asp Ser Thr Leu Leu Ala Ile Ser Arg  
165 170 175

His Leu Pro Arg Cys Ala Gln Asp Pro Ala Asp Arg Glu Gly Leu Ser  
180 185 190

Ala Pro Gly Leu Ala Val Leu Glu Gly Met Pro Ala Leu Glu Ser Leu  
195 200 205

Cys Leu Gln Gly Pro Leu Val Thr Pro Glu Met Pro Ser Pro Thr Glu  
210 215 220

Ile Leu Ser Ser Cys Leu Thr Met Pro Lys Leu Arg Val Leu Glu Leu  
225 230 235 240

Gln Gly Leu Gly Trp Glu Gly Gln Glu Ala Glu Lys Ile Leu Cys Lys  
245 250 255

Gly Leu Pro His Cys Met Val Ile Val Arg Ala Cys Pro Lys Glu Ser  
260 265 270

Met Asp Trp Trp Met  
275

<210> 1170  
 <211> 489  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (349)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (351)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (356)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (362)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1170  
 Thr Arg Val Phe Lys Glu Leu Glu Asn Thr Gly Lys Leu Ile Cys Ser  
 1 5 10 15

Pro Thr His Ile Asp Arg Val Arg Leu Phe Leu Met Gln Leu Arg Lys  
 20 25 30

Met Gln Thr Val Lys Lys Glu Gln Ala Ser Leu Asp Ala Ser Ser Asn  
 35 40 45

Val Asp Lys Met Met Val Leu Asn Ser Ala Leu Thr Glu Val Ser Glu  
 50 55 60

Asp Ser Thr Thr Gly Glu Glu Leu Leu Leu Ser Glu Gly Ser Val Gly  
 65 70 75 80

Lys Asn Lys Ser Ser Ala Cys Arg Arg Lys Arg Glu Phe Ile Pro Asp  
 85 90 95

Glu Lys Lys Asp Ala Met Tyr Trp Glu Lys Arg Arg Lys Asn Asn Glu  
 100 105 110

Ala Ala Lys Arg Ser Arg Glu Lys Arg Arg Leu Asn Asp Leu Val Leu  
 115 120 125

Glu Asn Lys Leu Ile Ala Leu Gly Glu Glu Asn Ala Thr Leu Lys Ala



130	135	140
Glu Leu Leu Ser Leu Lys Leu Lys Phe Gly Leu Ile Ser Ser Thr Ala		
145	150	155 160
Tyr Ala Gln Glu Ile Gln Lys Leu Ser Asn Ser Thr Ala Val Tyr Phe		
	165	170 175
Gln Asp Tyr Gln Thr Ser Lys Ser Asn Val Ser Ser Phe Val Asp Glu		
	180	185 190
His Glu Pro Ser Met Val Ser Ser Ser Cys Ile Ser Val Ile Lys His		
	195	200 205
Ser Pro Gln Ser Ser Leu Ser Asp Val Ser Glu Val Ser Ser Val Glu		
	210	215 220
His Thr Gln Glu Ser Ser Val Gln Gly Ser Cys Arg Ser Pro Glu Asn		
	225	230 235 240
Lys Phe Gln Ile Ile Lys Gln Glu Pro Met Glu Leu Glu Ser Tyr Thr		
	245	250 255
Arg Glu Pro Arg Asp Asp Arg Gly Ser Tyr Thr Ala Ser Ile Tyr Gln		
	260	265 270
Asn Tyr Met Gly Asn Ser Phe Ser Gly Tyr Ser His Ser Pro Pro Leu		
	275	280 285
Leu Gln Val Asn Arg Ser Ser Ser Asn Ser Pro Arg Thr Ser Glu Thr		
	290	295 300
Asp Asp Gly Val Val Gly Lys Ser Ser Asp Gly Glu Asp Glu Gln Gln		
	305	310 315 320
Val Pro Lys Gly Pro Ile His Ser Pro Val Glu Leu Lys His Val His		
	325	330 335
Ala Thr Val Val Lys Val Pro Glu Val Asn Ser Ser Xaa Leu Xaa His		
	340	345 350
Lys Leu Arg Xaa Lys Ala Lys Ala Met Xaa Ile Lys Val Glu Ala Phe		
	355	360 365
Asp Asn Glu Phe Glu Ala Thr Gln Lys Leu Ser Ser Pro Ile Asp Met		
	370	375 380
Thr Ser Lys Arg His Phe Glu Leu Glu Lys His Ser Ala Pro Ser Met		
	385	390 395 400
Val His Ser Ser Leu Thr Pro Phe Ser Val Gln Val Thr Asn Ile Gln		

				405					410					415		
Asp	Trp	Ser	Leu	Lys	Ser	Glu	His	Trp	His	Gln	Lys	Glu	Leu	Ser	Gly	
				420					425					430		
Lys	Thr	Gln	Asn	Ser	Phe	Lys	Thr	Gly	Val	Val	Glu	Met	Lys	Asp	Ser	
				435					440					445		
Gly	Tyr	Lys	Val	Ser	Asp	Pro	Glu	Asn	Leu	Tyr	Leu	Lys	Gln	Gly	Ile	
				450					455					460		
Ala	Asn	Leu	Ser	Ala	Glu	Val	Val	Ser	Leu	Lys	Arg	Leu	Ile	Ala	Thr	
				465					470					475		
Gln	Pro	Ile	Ser	Ala	Ser	Asp	Ser	Gly								
				485												

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<210> 1171
<211> 49
<212> PRT
<213> Homo sapiens
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<400> 1171
Gly Gly Val Thr Lys Arg Gln Ile Leu His Met Ile Pro Leu Val Ile
 1             5             10             15
Pro Arg Val Lys Phe Met Glu Thr Glu Ser Arg Lys Val Val Thr Ser
      20             25             30
Gly Trp Glu Gly Glu Asn Val Glu Phe Asn Gly Tyr Arg Ile Leu Val
 35             40             45
Leu

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<210> 1172
<211> 442
<212> PRT
<213> Homo sapiens
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<400> 1172
Ala Glu Ala Arg Ala Lys Ala Glu Ala Ala Gly Leu Arg Glu Ala Ala
 1             5             10             15
Ala Arg Arg Arg Ser Leu Ser Pro Ala Thr Met Ser Thr Lys Gln Ile
          20             25             30

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Thr Cys Arg Tyr Phe Met His Gly Val Cys Arg Glu Gly Ser Gln Cys  
 35 40 45  
 Leu Phe Ser His Asp Leu Ala Asn Ser Lys Pro Ser Thr Ile Cys Lys  
 50 55 60  
 Tyr Tyr Gln Lys Gly Tyr Cys Ala Tyr Gly Thr Arg Cys Arg Tyr Asp  
 65 70 75 80  
 His Thr Arg Pro Ser Ala Ala Ala Gly Gly Ala Val Gly Thr Met Ala  
 85 90 95  
 His Ser Val Pro Ser Pro Ala Phe His Ser Pro His Pro Pro Ser Glu  
 100 105 110  
 Val Thr Ala Ser Ile Val Lys Thr Asn Ser His Glu Pro Gly Lys Arg  
 115 120 125  
 Glu Lys Arg Thr Leu Val Leu Arg Asp Arg Asn Leu Ser Gly Met Ala  
 130 135 140  
 Glu Arg Lys Thr Gln Pro Ser Met Val Ser Asn Pro Gly Ser Cys Ser  
 145 150 155 160  
 Asp Pro Gln Pro Ser Pro Glu Met Lys Pro His Ser Tyr Leu Asp Ala  
 165 170 175  
 Ile Arg Ser Gly Leu Asp Asp Val Glu Ala Ser Ser Ser Tyr Ser Asn  
 180 185 190  
 Glu Gln Gln Leu Cys Pro Tyr Ala Ala Ala Gly Glu Cys Arg Phe Gly  
 195 200 205  
 Asp Ala Cys Phe Tyr Leu His Gly Glu Val Cys Glu Ile Cys Arg Leu  
 210 215 220  
 Gln Val Leu His Pro Phe Asp Pro Glu Gln Arg Lys Ala His Glu Lys  
 225 230 235 240  
 Ile Cys Met Leu Thr Phe Glu His Glu Met Glu Lys Ala Phe Ala Phe  
 245 250 255  
 Gln Ala Ser Gln Asp Lys Val Cys Ser Ile Cys Met Glu Val Ile Leu  
 260 265 270  
 Glu Lys Ala Ser Ala Ser Glu Arg Arg Phe Gly Ile Leu Ser Asn Cys  
 275 280 285  
 Asn His Thr Tyr Cys Leu Ser Cys Ile Arg Gln Trp Arg Cys Ala Lys  
 290 295 300

Gln Phe Glu Asn Pro Ile Ile Lys Ser Cys Pro Glu Cys Arg Val Ile  
 305 310 315 320  
 Ser Glu Phe Val Ile Pro Ser Val Tyr Trp Val Glu Asp Gln Asn Lys  
 325 330 335  
 Lys Asn Glu Leu Ile Glu Ala Phe Lys Gln Gly Met Gly Lys Lys Ala  
 340 345 350  
 Cys Lys Tyr Phe Glu Gln Gly Lys Gly Thr Cys Pro Phe Gly Ser Lys  
 355 360 365  
 Cys Leu Tyr Arg His Ala Tyr Pro Asp Gly Arg Leu Ala Glu Pro Glu  
 370 375 380  
 Lys Pro Arg Lys Gln Leu Ser Ser Gln Gly Thr Val Arg Phe Phe Asn  
 385 390 395 400  
 Ser Val Arg Leu Trp Asp Phe Ile Glu Asn Arg Glu Ser Arg His Val  
 405 410 415  
 Pro Asn Asn Glu Asp Val Asp Met Thr Glu Leu Gly Asp Leu Phe Met  
 420 425 430  
 His Leu Ser Gly Val Glu Ser Ser Glu Pro  
 435 440

<210> 1173

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173

Leu Glu Phe Trp Leu Leu Cys Leu Xaa Ser Arg His Leu Leu Tyr Gln

1                      5                      10                      15  
 Leu Leu Trp Asn Met Phe Ser Lys Glu Val Glu Leu Ala Asp Ser Met  
                     20                      25                      30  
 Gln Thr Leu Phe Arg Gly Asn Ser Leu Ala Ser Lys Ile Met Thr Phe  
                     35                      40                      45  
 Cys Phe Lys Val Tyr Gly Ala Thr Tyr Leu Gln Lys Leu Leu Xaa Pro  
                     50                      55                      60  
 Leu Leu Arg Ile Val Ile Thr Ser Ser Asp Trp Gln His Val Ser Phe  
                     65                      70                      75                      80  
 Glu Val Asp Pro Thr Xaa Leu Glu Pro Ser Glu Ser Leu Glu Glu Asn  
                     85                      90                      95  
 Gln Arg Asn Leu Leu Gln Met Thr Glu Lys Phe Phe His Ala Ile Ile  
                     100                      105                      110  
 Ser Ser Ser Ser Glu Phe Pro Pro Gln Leu Arg Ser Val Cys His Cys  
                     115                      120                      125  
 Leu Tyr Gln Ala Thr Tyr His Ser Leu Leu Asn Lys Ala Thr  
                     130                      135                      140

<210> 1174

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1174

Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro  
 1                      5                      10                      15

Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser  
 20                      25                      30

Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala

35	40	45
Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu		
50	55	60
Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala		
65	70	75 80
Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro		
	85	90 95
Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala		
	100	105 110
His His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser		
	115	120 125
Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser		
	130	135 140
Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His		
145	150	155 160
Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Ser Asp Gly Pro		
	165	170 175
Leu Val Cys Ala Leu Glu Gln Glu Arg Arg Leu Ala Xaa Pro Pro Lys		
	180	185 190
Pro Pro Pro Pro Leu Gln Pro Leu Leu Arg Gly Gly Gln Gly Leu Glu		
	195	200 205
Ala Ala Leu Ser Cys Pro Arg Phe Leu Arg Tyr Pro Arg Gln His Leu		
	210	215 220
Ile Ser Ser Leu Ala Glu Ala Arg Pro Glu Glu Leu Thr Pro His Val		
225	230	235 240
Met Val Leu Leu Ala Gln His Leu Ala Arg His Arg Leu Arg Glu Pro		
	245	250 255
Gln Leu Leu Glu Ala Ile Ala His Phe Leu Val Val Gln Glu Thr Gln		
	260	265 270
Leu Ser Ser Lys Val Val Gln Lys Leu Val Leu Pro Phe Gly Arg Leu		
	275	280 285
Asn Tyr Leu Pro Leu Glu Gln Gln Phe Met Pro Cys Leu Glu Arg Ile		
	290	295 300
Leu Ala Arg Glu Ala Gly Val Ala Xaa Leu Ala Thr Val Asn Ile Leu		

[illegible]

<210> 1175

<211> 114

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (50)**

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1175

His Glu Gln Asp Pro Lys Trp Gln Arg Cys Arg Leu Ser Trp Glu Ser  
1 5 10 15

Glu Pro Leu Trp Leu Phe Gly Arg Leu Met Val Thr Leu Lys Tyr Cys  
20 25 30

Leu Pro Leu Val Ser Arg Pro Ser Ser Ile Arg Trp Glu Arg Arg Pro  
35 40 45

Gln Xaa Met Cys Leu Ser Asp His Gly Ala Ser Cys Pro Ala Leu Gly  
50 55 60

Lys Thr Glu Thr Lys Ser Ser Gln Leu Ala Leu Gly Glu Gly Leu Phe  
65 70 75 80

Pro Leu Pro Leu Ala His Phe Gln Glu Phe Asp Ser Glu Ser Arg Ala  
85 90 95

Ala Val Pro Gly Arg Val Cys Thr His Ile Cys Val Gly Arg Lys Lys  
100 105 110

Arg Thr

<210> 1176

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1176

Gln Arg Leu Glu Ser Gly Asp Cys Ile Gly Val Leu Asp Cys Glu Trp  
1 5 10 15

Cys Met Val Asp Ser Asp Gly Lys Thr His Leu Asp Lys Pro Tyr Cys  
20 25 30

Ala Pro Gln Lys Glu Cys Phe Gly Gly Ile Val Gly Ala Lys Ser Pro  
35 40 45

Tyr Val Asp Asp Met Gly Ala Ile Gly Asp Glu Val Ile Thr Leu Asn  
50 55 60

Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly  
65 70 75 80

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile  
85 90 95

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met  
100 105 110

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp  
115 120 125

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala  
130 135 140

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Arg Tyr  
145 150 155 160

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser  
165 170 175

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln  
180 185



<210> 1177

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1177

His Ile Ala Lys Val Ser Cys Thr Leu Leu Gln Gly Asn Val Ser Phe  
1 5 10 15  
Met Ala Leu Lys His Leu Gly Lys Lys Lys Met Phe Lys Arg Ile Asn  
20 25 30  
Arg Ala Val Val Cys Ile Arg Met Cys Val Ile Cys Val Phe Tyr Lys  
35 40 45  
Leu Ser Ile Gly Gly Phe Arg Val Leu Lys Cys Gln His Ile Pro Ser  
50 55 60  
Pro Phe Val Ser Gln Ala Asn Met Arg Glu Asn Arg Lys Val Leu Ala  
65 70 75 80  
Val Gly Ile Gly Ser Ser Gly Gly Gln Met Ser Leu Pro Asp Pro  
85 90 95

<210> 1178

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178

Asn Ser Leu Thr Leu Ala Leu Pro Arg Xaa Thr Thr Ser His Asn Ser  
1 5 10 15  
Leu Thr Thr Pro Cys Tyr Thr Pro Tyr Tyr Val Ala Pro Glu Val Leu  
20 25 30  
Gly Pro Glu Lys Tyr Asp Lys Ser Cys Asp Met Trp Ser Leu Gly Val  
35 40 45  
Ile Met Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Ser Asn His  
50 55 60

Gly Leu Ala Ile Ser Pro Gly Met Lys Thr Arg Ile Arg Met Gly Gln  
65 70 75 80

Tyr Glu Phe Pro Asn Pro Glu Trp Ser Glu Val Ser Glu Glu Val Lys  
85 90 95

Met Leu Ile Arg Asn Leu Leu Lys Thr Glu Pro Thr Gln Arg Met Thr  
100 105 110

Ile Thr Glu Phe Met Asn His Pro Trp Ile Met Gln Ser Thr Lys Val  
115 120 125

Pro Gln Thr Pro Leu His Thr Ser Arg Val Leu Lys Glu Asp Lys Glu  
130 135 140

Arg Trp Glu Asp Val Lys Glu Glu Met Thr Ser Ala Leu Ala Thr Met  
145 150 155 160

Arg Val Asp Tyr Glu Gln Ile Lys Ile Lys Lys Ile Glu Asp Ala Ser  
165 170 175

Asn Pro Leu Leu Leu Lys Arg Arg Lys Lys Ala Arg Ala Leu Glu Ala  
180 185 190

Ala Ala Leu Ala His  
195

<210> 1179

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1179

His	Glu	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Lys	Glu	Cys
1				5					10					15	

Arg	Lys	Thr	Phe	Ser	Gln	Met	Thr	His	Leu	Thr	Gln	His	Gln	Thr	Thr
			20					25					30		

His	Thr	Arg	Glu	Lys	Phe	His	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Ala	Phe
		35					40					45			

Ser	Arg	Val	Ser	Ala	Leu	Ile	Asp	His	Gln	Arg	Ile	His	Ser	Gly	Glu
	50					55					60				

Xaa	Pro	Tyr	Glu	Cys	Lys	Xaa	Cys	Gly	Arg	Ala	Phe	Thr	Gln	Ser	Ala
65					70					75					80

Gln	Leu	Ile	Xaa	His	Gln	Lys	Thr	His	Ser	Gly	Glu	Lys	Pro	Tyr	Glu
				85					90					95	

Cys	Ser	Lys	Cys	Lys	Lys	Ser	Phe	Val	His	Leu	Ser	Xaa	Leu	Ile	Glu
			100					105					110		

His	Trp	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Lys	Asp	Cys
		115					120					125			

Lys	Lys	Thr	Phe	Cys	Arg	Val	Met	Gln	Phe	Thr	Leu	His	Arg	Arg	Ile
	130						135				140				

His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Lys	Glu	Cys	Gly	Lys	Ser	Phe
145					150					155					160

Ser	Ala	His	Ser	Ser	Leu	Val	Thr	His	Lys	Arg	Thr	His	Ser	Gly	Glu
				165					170					175	

Lys	Pro	Tyr	Lys	Cys	Lys	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Ala	His	Ser
			180					185					190		

Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu Lys Pro Tyr Thr  
 195 200 205

Cys His Ala Cys Gly Lys Ala Phe Asn Thr Ser Ser Thr Leu Cys Xaa  
 210 215 220

His Xaa Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ser Gln Cys  
 225 230 235 240

Gly Lys Ser Leu Val Phe Ser Cys Arg  
 245

<210> 1180

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (362)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Glu Asp Arg Glu Ala Glu Pro Gln Ile Ala Ala Xaa Asn Leu Lys Phe  
 1 5 10 15

Gln Gly Ala Ser Asn Leu Thr Leu Ser Glu Thr Gln Asn Gly Asp Val  
 20 25 30

Ser Glu Glu Thr Met Gly Ser Arg Lys Val Lys Lys Ser Lys Gln Lys  
 35 40 45

Pro Met Asn Val Gly Leu Ser Glu Thr Gln Asn Gly Gly Met Ser Gln  
 50 55 60

Glu Ala Val Gly Asn Ile Lys Val Thr Lys Ser Pro Gln Lys Ser Thr  
 65 70 75 80  
 Val Leu Ser Asn Gly Glu Ala Ala Met Gln Ser Ser Asn Ser Glu Ser  
 85 90 95  
 Lys Lys Lys Lys Lys Lys Lys Arg Lys Met Val Asn Asp Ala Glu Pro  
 100 105 110  
 Asp Thr Lys Lys Ala Lys Thr Glu Asn Lys Gly Lys Ser Glu Glu Glu  
 115 120 125  
 Ser Ala Glu Thr Thr Lys Glu Thr Glu Asn Asn Val Glu Lys Pro Asp  
 130 135 140  
 Asn Asp Glu Asp Glu Ser Glu Val Pro Ser Leu Pro Leu Gly Leu Thr  
 145 150 155 160  
 Gly Ala Phe Glu Asp Thr Ser Phe Ala Ser Leu Cys Asn Leu Val Asn  
 165 170 175  
 Glu Asn Thr Leu Lys Ala Ile Lys Glu Met Gly Phe Thr Asn Met Thr  
 180 185 190  
 Glu Ile Gln His Lys Ser Ile Arg Pro Leu Leu Glu Gly Arg Asp Leu  
 195 200 205  
 Leu Ala Ala Ala Lys Thr Gly Ser Gly Lys Thr Leu Ala Phe Leu Ile  
 210 215 220  
 Pro Ala Val Glu Leu Ile Val Lys Leu Arg Phe Met Pro Arg Asn Gly  
 225 230 235 240  
 Thr Gly Val Leu Ile Leu Ser Pro Thr Arg Glu Leu Ala Met Gln Thr  
 245 250 255  
 Phe Gly Val Leu Lys Glu Leu Met Thr His His Val His Thr Tyr Gly  
 260 265 270  
 Leu Ile Met Gly Gly Ser Asn Arg Ser Ala Glu Ala Gln Lys Leu Gly  
 275 280 285  
 Asn Gly Ile Asn Ile Ile Val Ala Thr Pro Gly Arg Leu Leu Asp His  
 290 295 300  
 Met Gln Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val  
 305 310 315 320  
 Ile Asp Glu Xaa Asp Arg Ile Leu Asp Val Gly Phe Glu Glu Glu Leu  
 325 330 335

Lys Gln Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe  
340 345 350

Ser Ala Thr Gln Thr Arg Lys Xaa Glu Xaa Leu Ala Arg Ile Ser Leu  
355 360 365

Lys Lys Glu Pro Leu Val Cys Trp Arg  
370 375

<210> 1181

<211> 422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (248)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1181

Ser	His	Leu	Leu	Gln	Thr	Thr	Tyr	Pro	Lys	Gln	Arg	Met	Pro	Asp	Arg
1				5					10					15	

Arg	His	Ser	Lys	Ser	Ala	Gln	Ile	Ile	Xaa	Xaa	Pro	Val	Pro	Tyr	Gln
			20					25					30		

Xaa	Xaa	Ser	His	Thr	Ser	Tyr	Leu	Tyr	Thr	Gln	Tyr	Ala	Pro	Val	Pro
		35					40					45			

Phe	Gly	Ile	Pro	Xaa	Pro	Met	Pro	Xaa	Pro	Met	Leu	Ile	Pro	Ser	Ser
	50					55					60				

Met	Asp	Ser	Glu	Asp	Lys	Val	Thr	Glu	Ser	Ile	Glu	Asp	Ile	Lys	Glu
65					70					75					80

Lys	Leu	Pro	Thr	His	Pro	Phe	Glu	Ala	Asp	Leu	Leu	Glu	Met	Ala	Glu
				85					90					95	

Met	Ile	Ala	Glu	Asp	Glu	Glu	Lys	Lys	Thr	Leu	Ser	Gln	Gly	Glu	Ser
		100						105					110		

Gln	Thr	Ser	Glu	His	Glu	Leu	Phe	Leu	Asp	Thr	Lys	Ile	Phe	Glu	Lys
		115					120						125		

Xaa	Gln	Gly	Ser	Thr	Tyr	Ser	Gly	Asp	Leu	Glu	Ser	Glu	Ala	Val	Ser
	130					135					140				

Thr	Pro	His	Ser	Trp	Glu	Glu	Glu	Leu	Asn	His	Tyr	Ala	Leu	Lys	Ser
145					150					155					160

Asn	Ala	Val	Gln	Glu	Ala	Asp	Ser	Glu	Leu	Lys	Gln	Phe	Ser	Lys	Gly
			165						170					175	

Glu	Thr	Glu	Arg	Thr	Trp	Lys	Gln	Ile	Phe	His	Gln	Thr	Pro	Leu	Thr
		180						185						190	

His	Leu	Ile	Lys	Asp	Gly	Asn	Pro	Gly	Thr	Phe	Pro	Asn	Arg	Arg	Arg
	195						200					205			

His	Arg	Asp	Gly	Phe	Pro	Gln	Pro	Arg	Arg	Arg	Gly	Arg	Lys	Lys	Ser
	210					215					220				

Ile	Val	Ala	Val	Glu	Pro	Arg	Ser	Leu	Ile	Gln	Gly	Ala	Phe	Gln	Gly
225						230				235					240

Cys Ser Val Ser Gly Met Thr Xaa Lys Tyr Met Tyr Gly Val Asn Ala  
                           245                          250                          255  
 Trp Lys Asn Trp Val Gln Trp Lys Asn Ala Lys Glu Glu Gln Gly Asp  
                           260                          265                          270  
 Leu Lys Cys Gly Gly Val Glu Gln Ala Ser Ser Ser Pro Arg Ser Asp  
                           275                          280                          285  
 Pro Leu Gly Ser Thr Gln Asp His Ala Leu Ser Gln Glu Ser Ser Glu  
                           290                          295                          300  
 Pro Gly Cys Arg Val Arg Ser Ile Lys Leu Lys Glu Asp Ile Leu Ser  
                           305                          310                          315                          320  
 Cys Thr Phe Ala Glu Leu Ser Leu Gly Leu Cys Gln Phe Ile Gln Glu  
                           325                          330                          335  
 Val Arg Arg Pro Asn Gly Glu Lys Tyr Asp Pro Asp Ser Ile Leu Tyr  
                           340                          345                          350  
 Leu Cys Leu Gly Ile Gln Gln Tyr Leu Phe Glu Asn Gly Arg Ile Asp  
                           355                          360                          365  
 Asn Ile Phe Thr Glu Pro Tyr Ser Arg Phe Met Ile Glu Leu Thr Lys  
                           370                          375                          380  
 Leu Leu Lys Ile Trp Glu Pro Thr Ile Leu Pro Asn Gly Tyr Met Phe  
                           385                          390                          395                          400  
 Ser Arg Ile Glu Glu Glu His Leu Trp Glu Cys Lys Gln Leu Gly Ala  
                           405                          410                          415  
 Tyr Ser Pro Ile Ala Phe  
                           420

&lt;210&gt; 1182

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1182

Lys Thr Gly Ala Cys Pro Glu Asp Xaa Lys Tyr Cys Pro Gln Ser Ser  
1 5 10 15

Arg Tyr Lys Thr Gly Leu Glu Pro Xaa Gly  
20 25

<210> 1183

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1183

Gly Gln Glu Ile Glu Thr Val Leu Ala Asn Met Val Lys Pro Arg Leu  
1 5 10 15

Tyr

<210> 1184

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1184

Cys Asp Ser Trp Asn Ala Val Met Ser Thr Leu Cys Pro Pro Pro Ser  
1 5 10 15

Pro Ala Val Ala Lys Thr Glu Ile Ala Leu Ser Gly Lys Ser Pro Leu  
20 25 30

Leu Ala Ala Thr Phe Ala Tyr Trp Asp Asn Ile Leu Gly Pro Arg Val  
35 40 45

Arg His Ile Trp Ala Pro Lys Thr Glu Gln Val Leu Leu Ser Asp Gly  
50 55 60

Glu Ile Thr Phe Leu Ala Asn His Thr Leu Asn Gly Glu Ile Leu Arg  
65 70 75 80

Asn Ala Glu Ser Gly Ala Ile Asp Val Lys Phe Phe Val Leu Ser Glu  
85 90 95

Lys Gly Val Ile Ile Val Ser Leu Ile Phe Asp Gly Asn Trp Asn Gly  
100 105 110

Asp Arg Ser Thr Tyr Gly Leu Ser Ile Ile Leu Pro Gln Thr Glu Leu  
115 120 125

Ser Phe Tyr Leu Pro Leu His Arg Val Cys Val Asp Arg Leu Thr His  
130 135 140

Ile Ile Arg Lys Gly Arg Ile Trp Met His Lys Glu Arg Xaa Glu Met  
145 150 155 160

Ser Arg Arg Leu Ser  
165

<210> 1185

**<211> 110**

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

**<222> (79)**

<223> xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

**<222> (91)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1185**

Gly Thr Ala Phe Thr Arg Gln Cys Ser Gln Gly Pro Trp Tyr Arg Ala  
1 5 10 15

Arg Ser Arg Val Pro Gln Val Val Arg Leu Pro Gly Pro His Leu Glu  
20 25 30

Pro Ser Leu Cys Ser Phe Glu Ser Arg Cys Cys Pro Thr Pro Ile Pro  
35 40 45

Asn Gln Pro Pro Pro Pro Ala Ser Leu Pro Ser Val Pro Phe Ile Leu  
50 55 60

Pro Gly Val Pro Ser Ala Cys His Gly Thr Ala Cys Tyr Leu Xaa Gln  
65 70 75 80

Leu Gln Met Pro Ala Leu Asn Leu Pro Trp Xaa Pro Phe Leu Tyr Xaa  
85 90 95

Val Asn Ser Leu Asn Ser Ala Leu Pro Leu Pro Ala Leu Lys  
100 105 110

<210> 1186

<211> 352

<212> PRT

<213> Homo sapiens

<400> 1186

Cys Arg Ser Pro Glu Ala Ser Val Leu Phe Pro Glu Val Ser Gly Leu  
1 5 10 15

Gly Gln Pro Pro Ser Ser Ser Leu Arg Met Ala Ser Ser Ser Gly Ser  
20 25 30

Lys Ala Glu Phe Ile Val Gly Gly Lys Tyr Lys Leu Val Arg Lys Ile  
35 40 45

Gly Ser Gly Ser Phe Gly Asp Ile Tyr Leu Ala Ile Asn Ile Thr Asn  
50 55 60

Gly Glu Glu Val Ala Val Lys Leu Glu Ser Gln Lys Ala Arg His Pro  
65 70 75 80

Gln Leu Leu Tyr Glu Ser Lys Leu Tyr Lys Ile Leu Gln Gly Gly Val  
85 90 95

Gly Ile Pro His Ile Arg Trp Tyr Gly Gln Glu Lys Asp Tyr Asn Val  
100 105 110

Leu Val Met Asp Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe  
115 120 125

Cys Ser Arg Arg Phe Thr Met Lys Thr Val Leu Met Leu Ala Asp Gln  
130 135 140

Met Ile Ser Arg Ile Glu Tyr Val His Thr Lys Asn Phe Ile His Arg  
145 150 155 160

Asp Ile Lys Pro Asp Asn Phe Leu Met Gly Ile Gly Arg His Cys Asn

	165		170		175
Lys Leu Phe Leu Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Asn					
	180		185		190
Arg Thr Arg Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly					
	195		200		205
Thr Ala Arg Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser					
	210		215		220
Arg Arg Asp Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn					
	225		230		235
Arg Thr Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln					
		245		250	255
Lys Tyr Glu Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val					
	260		265		270
Leu Cys Lys Gly Phe Pro Ala Glu Phe Ala Met Tyr Leu Asn Tyr Cys					
	275		280		285
Arg Gly Leu Arg Phe Glu Glu Ala Pro Asp Tyr Met Tyr Leu Arg Gln					
	290		295		300
Leu Phe Arg Ile Leu Phe Arg Thr Leu Asn His Gln Tyr Asp Tyr Thr					
	305		310		315
Phe Asp Trp Asp Asn Val Lys Ala Glu Ser Ser Thr Ala Gly Ser Leu					
		325		330	335
Phe Gln Trp Ala Gly Ser Ala Gly Pro Asn Pro His Arg Gln Ala Asn					
	340		345		350

&lt;210&gt; 1187

&lt;211&gt; 482

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (259)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (450)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (459)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (475)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1187  
Ala Gly Leu Val Ala Ala Gly Ala Val Arg Xaa Leu Tyr Pro Ala Ser  
1 5 10 15  
Arg Ala Gly Glu Arg Thr Arg Val Pro Gly Ser Pro Ala Pro Xaa Ser  
20 25 30  
Leu Pro Leu His Ser Pro Gly Ala Cys Gly Thr Glu Val Asp Met Asp  
35 40 45  
Pro Gln Arg Ser Pro Leu Leu Glu Val Lys Gly Asn Ile Glu Leu Lys  
50 55 60  
Arg Pro Leu Ile Lys Ala Pro Ser Gln Leu Pro Leu Ser Gly Ser Arg  
65 70 75 80  
Leu Lys Arg Arg Pro Asp Gln Met Glu Asp Gly Leu Glu Pro Glu Lys  
85 90 95  
Lys Arg Thr Arg Gly Leu Gly Ala Xaa Thr Lys Ile Thr Thr Ser His  
100 105 110

Pro Arg Val Pro Ser Leu Thr Thr Val Pro Gln Thr Gln Gly Gln Thr  
 115 120 125  
 Thr Ala Gln Lys Val Ser Lys Lys Thr Gly Pro Arg Cys Ser Thr Ala  
 130 135 140  
 Ile Ala Thr Gly Leu Lys Asn Gln Lys Pro Val Pro Ala Val Pro Val  
 145 150 155 160  
 Gln Lys Ser Gly Thr Ser Gly Val Pro Pro Met Ala Gly Gly Lys Lys  
 165 170 175  
 Pro Ser Lys Arg Pro Ala Trp Asp Leu Lys Gly Gln Leu Cys Asp Leu  
 180 185 190  
 Asn Ala Glu Leu Lys Arg Cys Arg Glu Arg Thr Gln Thr Leu Asp Gln  
 195 200 205  
 Glu Asn Gln Gln Leu Gln Asp Gln Leu Arg Asp Ala Gln Gln Gln Val  
 210 215 220  
 Lys Ala Leu Gly Thr Glu Arg Thr Thr Leu Glu Gly His Leu Ala Lys  
 225 230 235 240  
 Val Gln Ala Gln Ala Glu Gln Gly Gln Gln Glu Leu Lys Asn Leu Arg  
 245 250 255  
 Ala Cys Xaa Leu Glu Leu Glu Glu Arg Leu Ser Thr Gln Glu Gly Leu  
 260 265 270  
 Val Gln Glu Leu Gln Lys Lys Gln Val Glu Leu Gln Glu Glu Arg Arg  
 275 280 285  
 Gly Leu Met Ser Gln Leu Glu Glu Lys Glu Arg Arg Leu Gln Thr Ser  
 290 295 300  
 Glu Ala Ala Leu Ser Ser Ser Gln Ala Glu Val Ala Ser Leu Arg Gln  
 305 310 315 320  
 Glu Thr Val Ala Gln Ala Ala Leu Leu Thr Glu Arg Glu Glu Arg Leu  
 325 330 335  
 His Gly Leu Glu Met Glu Arg Arg Arg Leu His Asn Gln Leu Gln Glu  
 340 345 350  
 Leu Lys Gly Asn Ile Arg Val Phe Cys Arg Val Arg Pro Val Leu Pro  
 355 360 365  
 Gly Glu Pro Thr Pro Pro Pro Gly Leu Leu Leu Phe Pro Ser Gly Pro  
 370 375 380

Gly Gly Pro Ser Asp Pro Pro Thr Arg Leu Ser Leu Ser Arg Ser Asp  
 385 390 395 400  
 Glu Arg Arg Gly Thr Leu Ser Gly Ala Pro Ala Pro Pro Thr Arg His  
 405 410 415  
 Asp Phe Ser Phe Asp Arg Val Phe Pro Pro Gly Ser Gly Gln Asp Glu  
 420 425 430  
 Val Phe Glu Glu Ile Ala Met Leu Val Gln Ser Ala Leu Asp Gly Tyr  
 435 440 445  
 Pro Xaa Cys Ile Phe Ala Tyr Gly Gln Thr Xaa Ser Gly Lys Thr Phe  
 450 455 460  
 Thr Met Glu Gly Gly Leu Gly Glu Thr Pro Xaa Gly Arg Ala Asp Pro  
 465 470 475 480  
 Ser Gly

<210> 1188

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1188

Thr Ala Ser Leu Ser Asn Ala Val Lys Ile Leu Leu Arg Trp Val Thr  
 1 5 10 15  
 Arg Tyr Ser Cys Pro Arg Ala Phe Val Thr Gly Met Pro Lys Arg Gly  
 20 25 30  
 Lys Lys Gly Ala Val Ala Glu Asp Gly Asp Glu Leu Arg Thr Glu Pro  
 35 40 45  
 Glu Ala Lys Lys Ser Lys Thr Ala Ala Lys Lys Asn Asp Lys Glu Ala  
 50 55 60  
 Ala Gly Glu Gly Pro Ala Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr  
 65 70 75 80  
 Ser Pro Ser Gly Lys Pro Ala Thr Leu Lys Ile Cys Ser Trp Asn Val  
 85 90 95

Asp Gly Leu Arg Ala Trp Ile Lys Lys Lys Gly Leu Asp Trp Val Lys  
100 105 110

Glu Glu Ala Pro Asp Ile Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu  
115 120 125

Asn Lys Leu Pro Ala Glu Leu Gln Glu Leu Pro Gly Leu Ser His Gln  
130 135 140

Tyr Trp Ser Ala Pro Ser Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu  
145 150 155 160

Leu Ser Arg Gln Cys Pro Leu Lys Val Ser Tyr Gly Ile Gly Xaa Glu  
165 170 175

Glu His Asp Gln Glu Gly Arg Val Ile Val Ala Glu Phe Asp Ser Phe  
180 185 190

Val Leu Val Thr Ala Tyr Val Pro Asn Ala Gly Arg Gly Leu Val Arg  
195 200 205

Leu Glu Tyr Arg Gln Arg Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys  
210 215 220

Gly Leu Ala Ser Arg Lys Pro Leu Val Leu Cys Gly Asp Leu Asn Val  
225 230 235 240

Ala His Glu Glu Ile Asp Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn  
245 250 255

Ala Gly Phe Thr Pro Gln Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln  
260 265 270

Ala Val Pro Leu Ala Asp Ser Phe Arg His Leu Tyr Pro Asn Thr Pro  
275 280 285

Tyr Ala Tyr Thr Phe Trp Thr Tyr Met Met Asn Ala Arg Ser Lys Asn  
290 295 300

Val Gly Trp Arg Leu Asp Tyr Phe Leu Leu Ser His Ser Leu Leu Pro  
305 310 315 320

Ala Leu Cys Asp Ser Lys Ile Arg Ser Lys Ala Leu Gly Ser Asp His  
325 330 335

Cys Pro Ile Thr Leu Tyr Leu Ala Leu  
340 345



<210> 1189  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1189  
 Asp Ile Ser Thr Pro Ser Leu Thr Thr Asp His Ala Pro Leu Thr Ile  
           1                  5                  10                  15  
 Ser Leu Lys Pro Asn His Pro Tyr Arg Thr Gln Cys Gln Tyr Pro Ile  
                   20                  25                  30  
 Pro Gln His Ala Leu Lys Arg Leu Lys Pro Val Ile Ile Arg Leu Leu  
                   35                  40                  45  
 Gln His Gly Leu Leu Asn Pro Ile Asn Ser Pro Tyr Asn Ser Pro Ile  
           50                  55                  60  
 Phe Pro Val Leu Lys Arg Asp Lys Pro Tyr Lys Leu Val Gln Asp Leu  
           65                  70                  75                  80  
 Arg Leu Ile Asn Gln Ile Val Leu Pro Ile His Pro Val Val Pro Asn  
                   85                  90                  95  
 Pro Tyr Thr Leu Leu Ser Ser Ile Pro Pro Ser Thr Thr His Tyr Ser  
                   100                  105                  110  
 Val Leu Asp Leu Arg His Ala Phe Phe Thr Ile Ala Leu His Pro Ser  
                   115                  120                  125  
 Ser Gln Pro Leu Phe Ala Phe Thr  
           130                  135

<210> 1190  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1190

Leu	Xaa	Gln	Lys	Thr	Gln	Pro	Thr	His	Glu	Lys	Xaa	Ala	Xaa	Ser	Phe
1				5					10					15	

Leu	Gly	Met	Val	Cys	Ile	Trp	Val	Xaa	Ser	Ile	Gln	Thr	Ser	Ile	Asn
		20						25					30		

Thr	Ser	Phe	Ile	Leu	Gly	Leu	Pro	Asn	Ser	Phe	Pro	Gln	Asp	Leu	Lys
		35					40					45			

Thr	Ile	Thr	Met	Ile	Lys	Val	Ser	Phe	Ala	Pro	Cys	Gln	Arg	Leu	Gly
	50					55					60				

Pro	Leu	Pro	Phe	Pro	Ser	Arg	Gln	Tyr	Ser	Val	Gln	Leu	Gly	Leu	Val
65					70					75				80	

Pro	Ser	Leu	Ser	Val	Arg	Thr	Glu	Phe	His	Pro	Arg	Phe	Ser	Thr	Gln
				85					90					95	

Ala	Leu	Cys	Ser	Gly	Lys	Val	Lys	Pro	Ser	Leu	Lys	Gly	Ser	Lys	Ser
		100						105					110		

Ser	Ala	Ile	Asp	Arg	Ala	Ala	Gly	Gly	Lys	Arg	Ser	Arg	Cys	Ile	Arg
		115					120					125			

&lt;210&gt; 1191

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1191

Arg	Ala	Gly	Ser	Val	Lys	Arg	Arg	Gln	Arg	Gly	Lys	Met	Ala	Ala	Ala
1				5					10				15		

Val	Pro	Gln	Arg	Ala	Trp	Thr	Val	Glu	Gln	Leu	Arg	Ser	Glu	Gln	Leu
		20						25					30		

Pro Lys Lys Asp Ile Ile Lys Phe Leu Gln Glu His Gly Ser Asp Ser  
           35                          40                          45  
 Phe Leu Ala Glu His Lys Leu Leu Gly Asn Ile Lys Asn Val Ala Lys  
           50                          55                          60  
 Thr Ala Asn Lys Asp His Leu Val Thr Ala Tyr Asn His Leu Phe Glu  
           65                          70                          75                          80  
 Thr Lys Arg Phe Lys Gly Thr Glu Ser Ile Ser Lys Val Ser Glu Gln  
                           85                          90                          95  
 Val Lys Asn Val Lys Leu Asn Glu Asp Lys Pro Lys Glu Thr Lys Ser  
                           100                          105                          110  
 Glu Glu Thr Leu Asp Glu Gly Pro Pro Lys Tyr Thr Lys Ser Val Leu  
           115                          120                          125  
 Lys Lys Gly Asp Lys Thr Asn Phe Pro Lys Lys Gly Asp Val Val His  
           130                          135                          140  
 Cys Trp Tyr Thr Gly Thr Leu Gln Asp Gly Thr Val Phe Asp Thr Asn  
           145                          150                          155                          160  
 Ile Gln Thr Ser Ala Lys Lys Lys Lys Asn Ala Lys Pro Leu Ser Phe  
                           165                          170                          175  
 Lys Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu  
                           180                          185                          190  
 Thr Met Ser Lys Gly Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp  
           195                          200                          205  
 Ala Tyr Gly Lys Lys Gly Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala  
           210                          215                          220  
 Lys Leu Thr Phe Glu Val Glu Leu Val Asp Ile Asp  
           225                          230                          235

&lt;210&gt; 1192

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1192

Pro Ala Met Glu Ala Glu Ala Gly Gly Leu Glu Glu Leu Thr Asp Glu  
           1                          5                          10                          15

Glu Met Ala Ala Leu Gly Lys Glu Glu Leu Val Arg Arg Leu Arg Arg

20 25 30

Glu Glu Ala Ala Arg Leu Ala Ala Leu Val Gln Arg Gly Arg Leu Met  
35 40 45

Gln Glu Val Asn Arg Gln Leu Gln Gly His Leu Gly Glu Ile Arg Glu  
50 55 60

Leu Lys Gln Leu Asn Arg Arg Leu Gln Ala Glu Asn Arg Glu Leu Arg  
65 70 75 80

Asp Leu Cys Cys Phe Leu Asp Ser Glu Arg Gln Arg Gly Arg Arg Ala  
85 90 95

Ala Arg Gln Trp Gln Leu Phe Gly Thr Gln Ala Ser Arg Ala Val Arg  
100 105 110

Glu Asp Leu Gly Gly Cys Trp Gln Lys Leu Ala Glu Leu Glu Gly Arg  
115 120 125

Gln Glu Glu Leu Leu Arg Glu Asn Leu Ala Leu Lys Glu Leu Cys Leu  
130 135 140

Ala Leu Gly Glu Glu Trp Gly Pro Arg Gly Gly Pro Ser Gly Ala Gly  
145 150 155 160

Gly Ser Gly Ala Gly Pro Ala Pro Glu Leu Ala Leu Pro Pro Cys Gly  
165 170 175

Pro Arg Asp Leu Gly Asp Gly Ser Ser Ser Thr Gly Ser Val Gly Ser  
180 185 190

Pro Asp Gln Leu Pro Leu Ala Cys Ser Pro Asp Asp  
195 200

<210> 1193

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1193

Ser Gln Gln Thr Glu Leu Ile Thr Val Ile Leu Gly Val Phe Phe Cys  
1 5 10 15

Arg Val Lys His Val Asn Ile Leu His Arg His Lys Tyr Lys His Asp  
20 25 30

Lys His Trp Thr Trp Lys Met Gly Ser Lys Phe Cys Thr Cys Ala Phe  
35 40 45

Leu Tyr Phe Cys Cys Ile Phe Xaa Ser Cys Xaa Phe Ala Lys Tyr Ile  
50 55 60

Ile Asn  
65

&lt;210&gt; 1194

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1194

Thr Cys Ala Gly Pro Arg Gly Ala Ala Cys Gly Arg Leu Arg Leu Pro  
1 5 10 15

Ala Ala Gly Ala Leu Leu Pro Ala Ala Gln Arg Arg Val His Arg Tyr  
20 25 30

Glu Glu Ser Glu Val Ile Ser Leu Pro Phe Leu Asp Gln Leu Val Ser  
35 40 45

Thr Leu Val Gly Leu Leu Ser Pro His Asn Pro Ala Leu Ala Ala Ala  
50 55 60

Ala Leu Asp Tyr Arg Cys Pro Val His Phe Tyr Trp Val Arg Gly Glu  
65 70 75 80

Glu Ile Ile Pro Arg Gly His Arg Arg Gly Arg Ile Asp Asp Leu Arg  
85 90 95

Tyr Gln Ile Asp Asp Lys Pro Asn Asn Gln Ile Arg Ile Ser Lys Gln  
100 105 110

Leu Ala Glu Phe Val Pro Leu Asp Tyr Ser Val Pro Ile Glu Ile Pro  
115 120 125

Thr Ile Lys Cys Lys Pro Asp Lys Leu Pro Leu Phe Lys Arg Gln Tyr  
130 135 140

Glu Asn His Ile Phe Val Gly Ser Lys Thr Ala Asp Pro Cys Cys Tyr  
145 150 155 160

Gly His Thr Gln Phe His Leu Leu Pro Asp Lys Leu Arg Arg Glu Arg  
165 170 175

Leu Leu Arg Gln Asn Cys Ala Asp Gln Ile Glu Val Val Phe Arg Ala  
180 185 190

Asn Ala Ile Ala Ser Leu Phe Ala Trp Thr Gly Ala Gln Ala Met Tyr  
195 200 205

Gln Gly Phe Trp Ser Glu Ala Asp Val Thr Arg Pro Phe Val Ser Gln  
210 215 220

Ala Val Ile Thr Asp Gly Lys Tyr Phe Ser Phe Phe Cys Tyr Gln Leu  
225 230 235 240

Asn Thr Leu Ala Leu Thr Thr Gln Ala Asp Gln Asn Asn Pro Arg Lys  
245 250 255

Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro Leu Tyr Glu Thr Ile Glu  
260 265 270

Asp Asn Asp Val Lys Gly Phe Asn Asp Asp Val Leu Leu Gln Ile Val  
275 280 285

His Phe Leu Leu Asn Arg Pro Lys Glu Glu Lys Ser Gln Leu Leu Glu  
290 295 300

Asn  
305

<210> 1195

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1195

Gly Arg Ala Ala Pro Gln Leu Gln Asp Leu Ala Ser Ser Cys Pro Gln  
 1 5 10 15

Glu Glu Val Ser Gln Gln Gln Glu Ser Val Ser Xaa Leu Pro Ala Ser  
 20 25 30

Val His Pro Gln Leu Xaa His Gly Arg Ala Trp Arg Pro Ser Thr Cys  
 35 40 45

Ser Thr Asp Ser Arg Ser Pro Ala Phe Cys Gln Arg Pro Arg Thr Pro  
 50 55 60

Val Ser Ile Cys Cys Arg Ile Lys Arg Leu Phe Leu Gln Lys Gln Ser  
 65 70 75 80

Gln Leu Gln Ala Tyr Phe Asn Gln Met Gln Ile Ala Glu Ser Ser Tyr  
 85 90 95

Pro Gln Pro Ser Gln Gln  
 100

&lt;210&gt; 1196

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1196

Ala Arg Gly Pro Ala Ala Ala Cys Pro Leu Arg Trp Pro Pro Ala Ala  
 1 5 10 15

Ala Arg Ala Met Ala Gly Lys Ala His Arg Leu Ser Ala Glu Glu Arg  
 20 25 30

Asp Gln Leu Leu Pro Asn Leu Arg Ala Val Gly Trp Asn Glu Leu Glu  
 35 40 45

Gly Arg Asp Ala Ile Phe Lys Gln Phe His Phe Lys Asp Phe Asn Arg  
 50 55 60

Ala Phe Gly Phe Met Thr Arg Val Ala Leu Gln Ala Glu Lys Leu Asp  
 65 70 75 80

His His Pro Glu Trp Phe Asn Val Tyr Asn Lys Val His Ile Thr Leu  
 85 90 95

Ser Thr His Glu Cys Ala Gly Leu Ser Glu Arg Asp Ile Asn Leu Ala  
 100 105 110

Ser Phe Ile Glu Gln Val Ala Val Ser Met Thr  
 115 120

<210> 1197

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1197

Ala Arg Gly Gly Gly Lys Ser Gly Arg Ala Gly Gly Ala Gly Ala Arg  
 1 5 10 15

Arg Gly Gly Lys Glu Leu Arg Val Ala Ala Glu Xaa Pro Arg Xaa Gln  
 20 25 30

Arg Arg Pro Thr Gln Pro Ser Arg Arg Arg Arg Ala Pro Met Ala  
 35 40 45

Ala Ala Lys Asp Thr His Glu Asp His Asp Thr Ser Thr Glu Asn Thr  
 50 55 60

Asp Glu Ser Asn His Asp Pro Gln Phe Glu Pro Ile Val Ser Leu Pro  
 65 70 75 80

Glu Gln Glu Ile Lys Thr Leu Glu Glu Asp Glu Glu Glu Leu Phe Lys  
 85 90 95

Met Arg Ala Lys Leu Phe Arg Phe Ala Ser Glu Asn Asp Leu Pro Glu  
 100 105 110

Trp Lys Glu Arg Gly Thr Gly Asp Val Lys Leu Leu Lys His Lys Glu  
 115 120 125

Lys Gly Ala Ile Arg Leu Leu Met Arg Arg Asp Lys Thr Leu Lys Ile  
 130 135 140

Cys Ala Asn His Tyr Ile Thr Pro Met Met Glu Leu Lys Pro Asn Ala  
 145 150 155 160



Gly Ser Asp Arg Ala Trp Val Trp Asn Thr His Ala Asp Phe Ala Asp  
                   165                                  170                                  175  
 Glu Cys Pro Lys Pro Glu Leu Leu Ala Ile Arg Phe Leu Asn Ala Glu  
                   180                                  185                                  190  
 Asn Ala Gln Lys Phe Lys Thr Lys Phe Glu Glu Cys Arg Lys Glu Ile  
                   195                                  200                                  205  
 Glu Glu Arg Glu Lys Lys Ala Gly Ser Gly Lys Asn Asp His Ala Glu  
                   210                                  215                                  220  
 Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Lys Glu Glu Thr Lys  
                   225                                  230                                  235                                  240  
 Glu Asp Ala Glu Glu Lys Gln  
                                   245

<210> 1198  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1198  
 Phe Gly Phe Ser Thr Cys Ile Thr Asn Pro Ala Pro Ile Cys His Ile  
   1                                  5                                  10                                  15  
 Lys Val Cys Asp Leu Lys Phe Ser Gln His Pro His Gln Thr Leu Phe  
                   20                                  25                                  30  
 Phe Tyr Val Phe Phe Ala Thr Tyr Glu Cys Phe Glu Asn Lys Val Pro  
                   35                                  40                                  45  
 Met Ser Leu Leu Glu Lys Lys Lys Lys Lys Lys Lys  
                   50                                  55                                  60

<210> 1199  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1199

Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu  
1 5 10 15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr  
20 25 30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala  
35 40 45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala  
50 55 60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu  
65 70 75 80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe  
85 90 95

Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr  
100 105 110

Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly  
115 120 125

Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val  
130 135 140

Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr  
145 150 155 160

Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu Ala His Leu Gly  
165 170 175

His Ser Trp Gly Lys Pro Asp Phe Asn Tyr Gly Met Xaa Ser Trp Ala  
180 185 190

Cys Xaa Xaa Gly Pro Val  
195

&lt;210&gt; 1200

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1200

Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gly Arg Glu Xaa  
 1 5 10 15

Ala Gly Lys Met Val Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile  
 20 25 30

Gln Ala Ala Ser Ala Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn  
 35 40 45

Gly Ile Gln Ala His Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr  
 50 55 60

Thr Ala Glu Ser Gln Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr  
 65 70 75 80

Pro Lys Ala Arg Lys Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys  
 85 90 95

Gly Thr Glu Pro Ser Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn  
 100 105 110

Tyr Ser Val Ser Glu His His Asp Thr Ile Leu Arg Val Thr Arg Arg  
 115 120 125

Arg Gln Ile Leu Ile Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys  
 130 135 140

Pro Lys Val Thr Pro Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser  
 145 150 155 160

Glu Ala Glu Ser His Val Ser Gly Ile Ser Arg Asn Cys Ala  
 165 170

&lt;210&gt; 1201

&lt;211&gt; 689

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1201

Trp	Ser	Thr	Glu	Val	Glu	Pro	Ser	Gly	Ile	Ile	Phe	Lys	Asn	Ser	Lys	1	5	10	15
Thr	Gly	Lys	Val	Asp	Asn	Ile	Gln	Ala	Gly	Glu	Leu	Thr	Glu	Gly	Ile	20	25	30	
Trp	Arg	Arg	Val	Ala	Leu	Gly	His	Gly	Leu	Lys	Leu	Leu	Thr	Lys	Asn	35	40	45	
Gly	His	Val	Tyr	Lys	Tyr	Asp	Gly	Phe	Arg	Glu	Ser	Glu	Phe	Glu	Lys	50	55	60	
Leu	Ser	Asp	Phe	Phe	Lys	Thr	His	Tyr	Arg	Leu	Glu	Leu	Met	Glu	Lys	65	70	75	80
Asp	Leu	Cys	Val	Lys	Gly	Trp	Asn	Trp	Gly	Thr	Val	Lys	Phe	Gly	Gly	85	90	95	
Gln	Leu	Leu	Ser	Phe	Asp	Ile	Gly	Asp	Gln	Pro	Val	Phe	Glu	Ile	Pro	100	105	110	
Leu	Ser	Asn	Val	Ser	Gln	Cys	Thr	Thr	Gly	Lys	Asn	Glu	Val	Thr	Leu	115	120	125	
Glu	Phe	His	Gln	Asn	Asp	Asp	Ala	Glu	Val	Ser	Leu	Met	Glu	Val	Arg	130	135	140	
Phe	Tyr	Val	Pro	Pro	Thr	Gln	Glu	Asp	Gly	Val	Asp	Pro	Val	Glu	Ala	145	150	155	160
Phe	Ala	Gln	Asn	Val	Leu	Ser	Lys	Ala	Asp	Val	Ile	Gln	Ala	Thr	Gly	165	170	175	
Asp	Ala	Ile	Cys	Ile	Phe	Arg	Glu	Leu	Gln	Cys	Leu	Thr	Pro	Arg	Gly	180	185	190	
Arg	Tyr	Asp	Ile	Arg	Ile	Tyr	Pro	Thr	Phe	Leu	His	Leu	His	Gly	Lys	195	200	205	
Thr	Phe	Asp	Tyr	Lys	Ile	Pro	Tyr	Thr	Thr	Val	Leu	Arg	Leu	Phe	Leu	210	215	220	
Leu	Pro	His	Lys	Asp	Gln	Arg	Gln	Met	Phe	Phe	Val	Ile	Ser	Leu	Asp	225	230	235	240
Pro	Pro	Ile	Lys	Gln	Gly	Gln	Thr	Arg	Tyr	His	Phe	Leu	Ile	Leu	Leu	245	250	255	
Phe	Ser	Lys	Asp	Glu	Asp	Ile	Ser	Leu	Thr	Leu	Asn	Met	Asn	Glu	Glu	260	265	270	

Glu Val Glu Lys Arg Phe Glu Gly Arg Leu Thr Lys Asn Met Ser Gly  
275 280 285

Ser Leu Tyr Glu Met Val Ser Arg Val Met Lys Ala Leu Val Asn Arg  
290 295 300

Lys Ile Thr Val Pro Gly Asn Phe Gln Gly His Ser Gly Ala Gln Cys  
305 310 315 320

Ile Thr Cys Ser Tyr Lys Ala Ser Ser Gly Leu Leu Tyr Pro Leu Glu  
325 330 335

Arg Gly Phe Ile Tyr Val His Lys Pro Pro Val His Ile Arg Phe Asp  
340 345 350

Glu Ile Ser Phe Val Asn Phe Ala Arg Gly Thr Thr Thr Thr Arg Ser  
355 360 365

Phe Asp Phe Glu Ile Glu Thr Lys Gln Gly Thr Gln Tyr Thr Phe Ser  
370 375 380

Ser Ile Glu Arg Glu Glu Tyr Gly Lys Leu Phe Asp Phe Val Asn Ala  
385 390 395 400

Lys Lys Leu Asn Ile Lys Asn Arg Gly Leu Lys Glu Gly Met Asn Pro  
405 410 415

Ser Tyr Asp Glu Tyr Ala Asp Ser Asp Glu Asp Gln His Asp Ala Tyr  
420 425 430

Leu Glu Arg Met Lys Glu Glu Gly Lys Ile Arg Glu Glu Asn Ala Asn  
435 440 445

Asp Ser Ser Asp Asp Ser Gly Glu Glu Thr Asp Glu Ser Phe Asn Pro  
450 455 460

Gly Glu Glu Glu Glu Asp Val Ala Glu Glu Phe Asp Ser Asn Ala Ser  
465 470 475 480

Ala Ser Ser Ser Ser Asn Glu Gly Asp Ser Asp Arg Asp Glu Lys Lys  
485 490 495

Arg Lys Gln Leu Lys Lys Ala Lys Met Ala Lys Asp Arg Lys Ser Arg  
500 505 510

Lys Lys Pro Val Glu Val Lys Lys Gly Lys Asp Pro Asn Ala Pro Lys  
515 520 525

Arg Pro Met Ser Ala Tyr Met Leu Trp Leu Asn Ala Ser Arg Glu Lys  
530 535 540

Ile Lys Ser Asp His Pro Gly Ile Ser Ile Thr Asp Leu Ser Lys Lys  
 545 550 555 560  
 Ala Gly Glu Ile Trp Lys Gly Met Ser Lys Glu Lys Lys Glu Glu Trp  
 565 570 575  
 Asp Arg Lys Ala Glu Asp Ala Arg Arg Asp Tyr Glu Lys Ala Met Lys  
 580 585 590  
 Glu Tyr Glu Gly Gly Arg Gly Glu Ser Ser Lys Arg Asp Lys Ser Lys  
 595 600 605  
 Lys Lys Lys Lys Val Lys Val Lys Met Glu Lys Lys Ser Thr Pro Ser  
 610 615 620  
 Arg Gly Ser Ser Ser Lys Ser Ser Ser Arg Gln Leu Ser Glu Ser Phe  
 625 630 635 640  
 Lys Ser Lys Glu Phe Val Ser Ser Asp Glu Ser Ser Ser Gly Glu Asn  
 645 650 655  
 Lys Ser Lys Lys Lys Arg Arg Arg Ser Glu Asp Ser Glu Glu Glu Glu  
 660 665 670  
 Leu Ala Ser Thr Pro Pro Ser Ser Glu Asp Ser Ala Ser Gly Ser Asp  
 675 680 685

Glu

<210> 1202

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1202

Asn Leu Ser Glu Leu Leu Gln Ala Asp Phe Leu Gly Gln Gly Glu Ile  
 1 5 10 15

Met Val Leu Lys Cys Leu Ile Arg Ser His Thr Gln Phe Gln Val His  
 20 25 30

Tyr Ser Lys Ser Met Xaa Thr Ala Pro Thr Ala Thr Asn Leu Leu Leu

35                      40                      45  
 Pro Ser Arg Val Ala Cys Thr Ile Phe Ile Ala Cys Pro Gly Trp Val  
     50                      55                      60  
 Gly  
     65  
  
 <210> 1203  
 <211> 379  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (255)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1203  
 Gly Arg Leu Arg Ala Leu Ala Leu Ala Val Ser Ala Pro Gly Leu Thr  
     1                      5                      10                      15  
 Phe Lys Met Val His Ala Glu Ala Phe Ser Arg Pro Leu Ser Arg Asn  
             20                      25                      30  
 Glu Val Val Gly Leu Ile Phe Arg Leu Thr Ile Phe Gly Ala Val Thr  
             35                      40                      45  
 Tyr Phe Thr Ile Lys Trp Met Val Asp Ala Ile Asp Pro Thr Arg Lys  
             50                      55                      60  
 Gln Lys Val Glu Ala Gln Lys Gln Ala Glu Lys Leu Met Lys Gln Ile  
     65                      70                      75                      80  
 Gly Val Lys Asn Val Lys Leu Ser Glu Tyr Glu Met Ser Ile Ala Ala  
             85                      90                      95  
 His Leu Val Asp Pro Leu Asn Met His Val Thr Trp Ser Asp Ile Ala  
             100                      105                      110  
 Gly Leu Asp Asp Val Ile Thr Asp Leu Lys Asp Thr Val Ile Leu Pro  
             115                      120                      125  
 Ile Lys Lys Xaa His Leu Phe Glu Asn Ser Arg Leu Leu Gln Pro Pro

130 135 140  
Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Thr Leu Ile  
145 150 155 160  
Ala Lys Ala Thr Ala Lys Glu Ala Gly Cys Arg Phe Ile Asn Leu Gln  
165 170 175  
Pro Ser Thr Leu Thr Asp Lys Trp Tyr Gly Glu Ser Gln Lys Leu Ala  
180 185 190  
Ala Ala Val Phe Ser Leu Ala Ile Lys Leu Gln Pro Ser Ile Ile Phe  
195 200 205  
Ile Asp Glu Ile Asp Ser Phe Leu Arg Asn Arg Ser Ser Ser Asp His  
210 215 220  
Glu Ala Thr Ala Met Met Lys Ala Gln Phe Met Ser Leu Trp Asp Gly  
225 230 235 240  
Leu Asp Thr Asp His Ser Cys Gln Val Ile Val Met Gly Ala Xaa Asn  
245 250 255  
Arg Pro Gln Asp Leu Asp Ser Ala Ile Met Arg Arg Met Pro Thr Arg  
260 265 270  
Phe His Ile Asn Gln Pro Ala Leu Lys Gln Arg Glu Ala Ile Leu Lys  
275 280 285  
Leu Ile Leu Lys Asn Glu Asn Val Asp Arg His Val Asp Leu Leu Glu  
290 295 300  
Val Ala Gln Glu Thr Asp Gly Phe Ser Gly Ser Asp Leu Lys Glu Met  
305 310 315 320  
Cys Arg Asp Ala Ala Leu Leu Cys Val Arg Glu Tyr Val Asn Ser Thr  
325 330 335  
Ser Glu Glu Ser His Asp Glu Asp Glu Ile Arg Pro Val Gln Gln Gln  
340 345 350  
Asp Leu His Arg Ala Ile Glu Lys Met Lys Lys Ser Lys Asp Ala Ala  
355 360 365  
Phe Gln Asn Val Leu Thr His Val Cys Leu Asp  
370 375

&lt;210&gt; 1204

&lt;211&gt; 77



<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1204

Leu	Ser	Xaa	Pro	Gly	Ala	Trp	Phe	Tyr	Val	Pro	Val	Ala	Met	Phe	Pro
1				5					10					15	

Val	Ser	Ser	Gly	Cys	Phe	Gln	Glu	Gln	Gln	Glu	Thr	Asn	Lys	Ser	Leu
			20					25					30		

Thr	Leu	Leu	Arg	Cys	Ser	Gln	Arg	Asp	Thr	Ser	Pro	Leu	Met	Asp	Gly
			35					40					45		

Gln	Thr	Trp	Ala	Gly	Ser	Val	Ser	Leu	Asn	His	Pro	Pro	Leu	Pro	Gln
			50				55					60			

Leu	Pro	Thr	Thr	Asp	Thr	Ser	Asp	Asp	Thr	Pro	Gly	Lys
65						70					75	

<210> 1205

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (239)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (273)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (277)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (284)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1205

Phe	Thr	Ser	Val	Ser	Cys	Thr	Ser	Thr	Ser	Ser	Phe	Ser	Ser	Asn	Ala
1				5					10					15	

Ala	Gln	Arg	Phe	Phe	Leu	Leu	His	Gly	Thr	Lys	Cys	Asn	Tyr	Ser	Pro
			20					25					30		

Gly	Ser	Pro	Val	Tyr	Phe	Cys	Tyr	Glu	Ser	Ser	Tyr	Phe	Asn	Thr	Thr
		35					40					45			

Ser	Arg	Pro	Thr	Ser	Cys	Ser	Ala	Val	Ser	Ser	Ala	Val	Asn	Ile	Met
		50				55					60				

Asn	Gly	Ser	Gln	Met	His	Ile	Asn	Pro	Ala	Asn	Lys	Ser	Leu	Pro	Pro
65					70					75				80	

Thr	Phe	Gly	Pro	Ala	Thr	Leu	Phe	Asn	His	Phe	Ser	Ser	Leu	Phe	Asp
				85					90					95	

Ser	Ser	Gln	Val	Pro	Ala	Asn	Gln	Gly	Trp	Gly	Asp	Gly	Pro	Leu	Ser
			100					105					110		

Ser	Arg	Val	Ala	Thr	Asp	Ala	Ser	Phe	Thr	Val	Gln	Ser	Ala	Phe	Leu
		115					120					125			

Gly	Asn	Ser	Val	Leu	Gly	His	Leu	Glu	Asn	Met	His	Pro	Asp	Asn	Ser
	130					135					140				

Lys	Ala	Pro	Gly	Phe	Arg	Pro	Pro	Ser	Gln	Arg	Val	Ser	Thr	Ser	Pro
145					150					155					160

Val Gly Leu Pro Ser Ile Asp Pro Ser Gly Ser Ser Pro Ser Ser Ser  
165 170 175

Ser Ala Pro Leu Ala Ser Phe Ser Gly Ile Pro Gly Thr Arg Val Phe  
180 185 190

Leu Gln Gly Pro Ala Pro Val Gly Thr Pro Ser Phe Asn Arg Gln His  
195 200 205

Phe Ser Pro His Pro Trp Thr Ser Ala Ser Asn Ser Cys Xaa Xaa Pro  
210 215 220

Ile Pro Xaa Val Ser Ser Gly Ser Ser Ser Xaa Leu Ser Ala Xaa Ser  
225 230 235 240

Cys Pro Thr Asn Val Gly Ala Asn Gln Lys Gly Val Ser Ala Ser Gln  
245 250 255

Gly Phe Gly Lys Val Thr Phe Pro Gln Leu Gly Asn Arg Arg Arg Thr  
260 265 270

Xaa Ala Arg Ile Xaa Gly Lys Gly Gly Gly Phe Xaa Trp His Lys Ala  
275 280 285

Pro Gly Gly Asn Gln Phe Phe Cys Ser Val Ser Leu Trp Asp Lys Val  
290 295 300

Gly  
305

<210> 1206

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1206

Arg Glu His Ser Ala Phe Asp Leu Trp Glu Ile Ser Ser Trp Xaa Pro  
1 5 10 15

Trp Cys Cys Thr Asp His Gln Glu Glu Leu Lys Ser Ser Gly Asn Leu  
20 25 30

Xaa Lys Ile Lys Ser Pro Pro Ala Arg Xaa Leu Ser Lys Ile Thr Gly  
35 40 45

Arg Leu Leu Xaa Gln His Val Xaa Glu Cys Ala Ser Gly  
50 55 60

<210> 1207

<211> 177

<212> PRT

<213> Homo sapiens

<400> 1207

Asn Ser Ala Gln Gly Met Ala Gly Ser Pro Glu Leu Val Val Leu Asp  
1 5 10 15

Pro Pro Trp Asp Lys Glu Leu Ala Ala Gly Thr Glu Ser Gln Ala Leu  
20 25 30

Val Ser Ala Thr Pro Arg Glu Asp Phe Arg Val Arg Cys Thr Ala Lys  
35 40 45

Arg Ala Val Thr Glu Met Leu Gln Leu Cys Gly Arg Phe Val Gln Lys  
50 55 60

Leu Gly Asp Ala Leu Pro Glu Glu Ile Arg Glu Pro Ala Leu Arg Asp  
65 70 75 80

Ala Gln Trp Thr Phe Glu Ser Ala Val Gln Glu Asn Ile Ser Ile Asn  
85 90 95

Gly Gln Ala Trp Gln Glu Ala Ser Asp Asn Cys Phe Met Asp Ser Asp

100	105	110
Ile Lys Val Leu Glu Asp Gln Phe Asp Glu Ile Ile Val Asp Ile Ala		
115	120	125
Thr Lys Arg Lys Gln Tyr Pro Arg Lys Ile Leu Glu Cys Val Ile Lys		
130	135	140
Thr Ile Lys Ala Lys Gln Glu Ile Leu Lys Gln Tyr His Pro Val Val		
145	150	155
		160
His Pro Leu Asp Leu Lys Tyr Asp Pro Asp Pro Val Leu Ala Cys Ile		
165	170	175

Asn

&lt;210&gt; 1208

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (277)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1208

Pro	His	Arg	Val	Asp	Thr	Arg	Arg	Arg	Asp	Pro	Val	Pro	Arg	Ser	Arg
1				5					10					15	
Ala	Leu	Ser	His	Gly	Thr	Gly	Arg	Val	Gly	Ala	Ala	Ala	Gly	Glu	Ser
			20					25					30		
Ser	Arg	Ala	Pro	Arg	Cys	Trp	Ser	Gly	Ser	Arg	Pro	Arg	Ala	Pro	Ala
		35					40					45			
Asp	Pro	Pro	Arg	His	Arg	Pro	Leu	Leu	Cys	Leu	Ser	Arg	Arg	Gly	Ser
	50					55					60				
Pro	Pro	His	His	Leu	Gly	Cys	Leu	Leu	Gly	Glu	Ser	Phe	Met	Gln	Leu
65					70					75				80	
Gln	Gln	Arg	Leu	Leu	Arg	Glu	Lys	Glu	Ala	Lys	Ile	Arg	Lys	Ala	Leu
			85						90					95	
Asp	Arg	Leu	Arg	Lys	Lys	Arg	His	Leu	Leu	Arg	Arg	Gln	Arg	Thr	Arg
		100						105					110		

Arg Glu Phe Pro Val Ile Ser Val Val Gly Tyr Thr Asn Cys Gly Lys  
115 120 125

Thr Thr Leu Ile Lys Ala Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg  
130 135 140

Asp Gln Leu Phe Ala Thr Leu Asp Val Thr Ala His Ala Gly Thr Leu  
145 150 155 160

Pro Ser Arg Met Thr Val Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser  
165 170 175

Gln Leu Pro His Gly Leu Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp  
180 185 190

Val Ala His Ser Asp Leu Ile Leu His Val Arg Asp Val Ser His Pro  
195 200 205

Glu Ala Glu Leu Gln Lys Cys Ser Val Leu Ser Thr Leu Arg Gly Leu  
210 215 220

Gln Leu Pro Ala Pro Leu Leu Asp Ser Met Val Glu Val His Asn Lys  
225 230 235 240

Val Asp Leu Val Pro Gly Tyr Ser Pro Thr Glu Pro Asn Val Val Pro  
245 250 255

Val Ser Ala Leu Arg Gly His Gly Leu Gln Glu Leu Lys Leu Ser Ser  
260 265 270

Met Arg Arg Phe Xaa Arg Arg Arg Gly Asp Arg Ser Ser Leu Ser Val  
275 280 285

<210> 1209

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209

Asn	Ile	Leu	Gly	Gly	Gly	Lys	Trp	Phe	Leu	Arg	Gly	Ile	Leu	Leu	Ile	1	5	10	15
Leu	Pro	Gln	Val	Tyr	Leu	Pro	Cys	Val	Leu	Gln	Thr	Lys	Xaa	Arg	Tyr	20	25	30	
Val	Gly	Tyr	Met	Tyr	Glu	Thr	Leu	Asp	Gln	Lys	Asp	Pro	Val	Phe	Asp	35	40	45	
Ala	Lys	Gly	Ile	Glu	Thr	Val	Arg	Arg	Asp	Ser	Cys	Pro	Ala	Val	Ser	50	55	60	
Lys	Ile	Leu	Glu	Arg	Ser	Leu	Lys	Leu	Leu	Phe	Glu	Thr	Arg	Asp	Ile	65	70	75	80
Ser	Leu	Ile	Lys	Gln	Tyr	Val	Gln	Arg	Gln	Cys	Met	Lys	Leu	Leu	Glu	85	90	95	
Gly	Lys	Ala	Ser	Ile	Gln	Asp	Phe	Ile	Phe	Ala	Lys	Glu	Tyr	Arg	Gly	100	105	110	
Ser	Phe	Ser	Tyr	Lys	Pro	Gly	Ala	Cys	Val	Pro	Ala	Leu	Glu	Leu	Thr	115	120	125	
Arg	Lys	Met	Leu	Thr	Tyr	Asp	Arg	Arg	Ser	Glu	Pro	Gln	Val	Gly	Glu	130	135	140	
Arg	Val	Pro	Tyr	Val	Ile	Ile	Tyr	Gly	Thr	Pro	Gly	Val	Pro	Leu	Ile	145	150	155	160
Gln	Leu	Val	Arg	Arg	Pro	Val	Glu	Val	Leu	Gln	Asp	Pro	Thr	Leu	Arg	165	170	175	
Leu	Asn	Ala	Thr	Tyr	Tyr	Ile	Thr	Lys	Gln	Ile	Leu	Pro	Pro	Leu	Ala	180	185	190	
Arg	Ile	Phe	Ser	Leu	Ile	Gly	Ile	Asp	Val	Phe	Ser	Trp	Tyr	His	Glu	195	200	205	
Leu	Pro	Arg	Ile	His	Lys	Ala	Thr	Ser	Ser	Ser	Arg	Ser	Glu	Pro	Glu	210	215	220	
Gly	Arg	Lys	Gly	Thr	Ile	Ser	Gln	Tyr	Phe	Thr	Thr	Leu	His	Cys	Pro	225	230	235	240
Val	Cys	Asp	Asp	Leu	Thr	Gln	His	Gly	Ile	Cys	Ser	Lys	Cys	Arg	Ser	245	250	255	

Gln Pro Gln His Xaa Ala Val Ile Leu Asn Gln Glu Ile Arg Glu Leu  
 260 265 270

Glu Arg Gln Gln Glu Gln Leu Val Lys Ile Cys Lys Asn Cys Thr Gly  
 275 280 285

Cys Phe Asp Arg His Ile Pro Cys Val Ser Leu Asn Cys Pro Val Leu  
 290 295 300

Phe Lys Leu Ser Arg Val Asn Arg Glu Leu Ser Lys Ala Pro Tyr Leu  
 305 310 315 320

Arg Gln Leu Leu Asp Gln Phe  
 325

<210> 1210

<211> 676

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1210

Pro Val Leu Arg Thr His Pro Gly Pro Gln Ser Leu Pro Arg Val Pro  
 1 5 10 15

Gly Val Pro Cys Gly Gly Leu Leu Glu Pro Leu Ser Arg Ala Glu Val  
 20 25 30

Ser Pro Arg Leu Gly Leu Arg Arg Asp Leu Leu Gly Gly Met Ala Pro  
 35 40 45

Pro Gly Ser Ser Thr Val Phe Leu Leu Ala Leu Thr Ile Ile Ala Ser  
 50 55 60

Thr Trp Ala Leu Thr Pro Thr His Tyr Leu Thr Lys His Asp Val Glu  
 65 70 75 80

Arg Leu Lys Ala Ser Leu Asp Arg Pro Phe Thr Asn Leu Glu Ser Ala  
 85 90 95

Phe Tyr Ser Ile Val Gly Leu Ser Ser Leu Gly Ala Gln Val Pro Asp  
 100 105 110

Ala Lys Lys Ala Cys Thr Tyr Ile Arg Ser Asn Leu Asp Pro Ser Asn  
 115 120 125



Val Asp Ser Leu Phe Tyr Ala Ala Gln Ala Ser Gln Ala Leu Ser Gly  
130 135 140

Cys Glu Ile Ser Ile Ser Asn Glu Thr Lys Asp Leu Leu Leu Ala Ala  
145 150 155 160

Val Ser Glu Asp Ser Ser Val Thr Gln Ile Tyr His Ala Val Ala Ala  
165 170 175

Leu Ser Gly Phe Gly Leu Pro Leu Ala Ser Gln Glu Ala Leu Ser Ala  
180 185 190

Leu Thr Ala Arg Leu Ser Lys Glu Glu Thr Val Leu Ala Thr Val Gln  
195 200 205

Ala Leu Gln Thr Ala Ser His Leu Ser Gln Gln Ala Asp Leu Arg Ser  
210 215 220

Ile Val Glu Glu Ile Glu Asp Leu Val Ala Arg Leu Asp Glu Leu Gly  
225 230 235 240

Gly Val Tyr Leu Gln Phe Glu Glu Gly Leu Glu Thr Thr Ala Leu Phe  
245 250 255

Val Ala Ala Thr Tyr Lys Leu Met Asp His Val Gly Thr Glu Pro Ser  
260 265 270

Ile Lys Glu Asp Gln Val Ile Gln Leu Met Asn Ala Ile Phe Ser Lys  
275 280 285

Lys Asn Phe Glu Ser Leu Ser Glu Ala Phe Ser Val Ala Ser Ala Ala  
290 295 300

Ala Val Leu Ser His Asn Arg Tyr His Val Pro Val Val Val Val Pro  
305 310 315 320

Glu Gly Ser Ala Ser Asp Thr His Glu Gln Ala Ile Leu Arg Leu Gln  
325 330 335

Val Thr Asn Val Leu Ser Gln Pro Leu Thr Gln Ala Thr Val Lys Leu  
340 345 350

Glu His Ala Lys Ser Val Ala Ser Arg Ala Thr Val Leu Gln Lys Thr  
355 360 365

Ser Phe Thr Pro Val Xaa Asp Val Phe Glu Leu Asn Phe Met Asn Val  
370 375 380

Lys Phe Ser Ser Gly Tyr Tyr Asp Phe Leu Val Glu Val Glu Gly Asp  
385 390 395 400

Asn Arg Tyr Ile Ala Asn Thr Val Glu Leu Arg Val Lys Ile Ser Thr  
405 410 415

Glu Val Gly Ile Thr Asn Val Asp Leu Ser Thr Val Asp Lys Asp Gln  
420 425 430

Ser Ile Ala Pro Lys Thr Thr Arg Val Thr Tyr Pro Ala Lys Ala Lys  
435 440 445

Gly Thr Phe Ile Ala Asp Ser His Gln Asn Phe Ala Leu Phe Phe Gln  
450 455 460

Leu Val Asp Val Asn Thr Gly Ala Glu Leu Thr Pro His Gln Thr Phe  
465 470 475 480

Val Arg Leu His Asn Gln Lys Thr Gly Gln Glu Val Val Phe Val Ala  
485 490 495

Glu Pro Asp Asn Lys Asn Val Tyr Lys Phe Glu Leu Asp Thr Ser Glu  
500 505 510

Arg Lys Ile Glu Phe Asp Ser Ala Ser Gly Thr Tyr Thr Leu Tyr Leu  
515 520 525

Ile Ile Gly Asp Ala Thr Leu Lys Asn Pro Ile Leu Trp Asn Val Ala  
530 535 540

Asp Val Val Ile Lys Phe Pro Glu Glu Glu Ala Pro Ser Thr Val Leu  
545 550 555 560

Ser Gln Asn Leu Phe Thr Pro Lys Gln Glu Ile Gln His Leu Phe Arg  
565 570 575

Glu Pro Glu Lys Arg Pro Pro Thr Val Val Ser Asn Thr Phe Thr Ala  
580 585 590

Leu Ile Leu Ser Pro Leu Leu Leu Leu Phe Ala Leu Trp Ile Arg Ile  
595 600 605

Gly Ala Asn Val Ser Asn Phe Thr Phe Ala Pro Ser Thr Ile Ile Phe  
610 615 620

His Leu Gly His Ala Ala Met Leu Gly Leu Met Tyr Val Tyr Trp Thr  
625 630 635 640

Gln Leu Asn Met Phe Gln Thr Leu Lys Tyr Leu Ala Ile Leu Gly Ser  
645 650 655

Val Thr Phe Leu Ala Gly Asn Arg Met Leu Ala Gln Gln Ala Val Lys  
660 665 670

Arg Thr Ala His  
675

<210> 1211  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 1211  
His Val Cys Leu Thr Leu Met Glu Gly Ile Asn Pro Gln Asn Phe Leu  
1 5 10 15  
Pro Arg Glu Leu Gly Asn Cys Pro Arg Asn Lys Pro Cys Thr Val Glu  
20 25 30  
Trp Thr Trp Ile Ser Asn Asn Leu Leu Leu Cys Arg Ile Cys Ser Leu  
35 40 45  
Val Ile Val Trp Cys Val Ile Leu  
50 55

<210> 1212  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1212  
Ser Tyr Pro Ala Ala Lys Ser Ser Val Ile Phe Gly Ala Leu Arg Ile  
1 5 10 15  
Thr Leu Val Ser Ala His Phe Pro Phe Cys Leu Pro Tyr Lys Ala Gln  
20 25 30  
Asn Arg Val Gly Lys Lys Tyr Glu Thr Ser Thr Val Ser Thr Phe Leu  
35 40 45  
Glu Val Trp Tyr Leu Val Ser Arg Leu Arg Pro Gln Asp  
50 55 60

<210> 1213  
<211> 260  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1213

Cys Pro Pro Glu Cys Arg Trp Cys Val Ala Arg Leu Ala Leu Arg Glu  
1 5 10 15

Ser Trp Gly Leu Leu Pro Glu Arg Tyr Gly Tyr Val Asp Arg Asn Arg  
20 25 30

Ile Phe Gly Cys Asp Pro Pro Tyr Tyr Ala Val Leu Glu Gly Glu Gln  
35 40 45

Phe Thr Ser Gly Val Ser Thr Leu Gln Glu Glu Thr Thr Val Ser Leu  
50 55 60

Asn Thr Val Asp Ser Ile Glu Ser Phe Val Ala Asp Ile Asn Ser Gly  
65 70 75 80

His Trp Asp Thr Val Leu Gln Ala Ile Gln Ser Leu Lys Leu Pro Asp  
85 90 95

Lys Thr Leu Ile Asp Leu Tyr Glu Gln Val Val Leu Glu Leu Ile Glu  
100 105 110

Leu Arg Glu Leu Gly Ala Ala Arg Ser Leu Leu Arg Gln Thr Asp Pro  
115 120 125

Met Ile Met Leu Lys Gln Thr Gln Pro Glu Arg Tyr Ile His Leu Glu  
130 135 140

Asn Leu Leu Ala Arg Ser Tyr Phe Asp Pro Arg Glu Ala Tyr Pro Asp  
145 150 155 160

Gly Ser Ser Lys Glu Lys Arg Arg Ala Ala Ile Ala Gln Ala Leu Ala  
165 170 175

Gly Glu Val Ser Val Val Pro Pro Ser Arg Leu Met Ala Leu Leu Gly  
180 185 190

Gln Ala Leu Lys Trp Gln Gln His Gln Gly Leu Leu Xaa Pro Gly Met  
195 200 205

Thr Ile Asp Leu Phe Arg Gly Lys Ala Ala Val Lys Asp Val Glu Glu  
210 215 220

Glu Lys Phe Pro Thr Gln Leu Ser Arg His Ile Lys Phe Gly Gln Lys  
225 230 235 240

Ser His Val Glu Cys Ala Arg Phe Ser Pro Asp Gly Pro Val Phe Gly  
245 250 255

His Trp Val Cys  
260

<210> 1214  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1214  
Lys Gln Asn Ile Pro Tyr Val Ser Phe Ser Ile Gly Gln Lys His Phe  
1 5 10 15

Asp Thr Met Phe Val Lys His Leu Trp Arg Gly Ala Leu Leu Asn Ala  
20 25 30

Ala Ser Ala Val Asn Pro Gly Gly Lys Gly Ser Ala Ser Ser Gln Glu  
35 40 45

Pro Ser Pro Ser Ile Asn Arg Glu Leu Lys Gln Ala Phe Phe Phe Ser  
50 55 60

Tyr Arg Lys Ala Ala Ile Val Gln Gly His Ile Met Gly Leu Phe Ala  
65 70 75 80

Leu Ile Gly Phe Gln Met Cys Met Ala Lys Arg Glu Met Trp Ala  
85 90 95

<210> 1215  
<211> 365  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1215  
Xaa His Gly Ile Gly Val Thr Ala Thr Asn Phe Thr Thr His Asn Ile  
1 5 10 15

Pro Gln Thr Phe Thr Thr Ala Ile Arg Cys Thr Lys Cys Gly Lys Gly  
20 25 30

Val Asp Asn Met Pro Glu Leu His Lys His Ile Leu Ala Cys Ala Ser  
 35 40 45  
 Ala Ser Asp Lys Lys Arg Tyr Thr Pro Lys Lys Asn Pro Val Pro Leu  
 50 55 60  
 Lys Gln Thr Val Gln Pro Lys Asn Gly Val Val Val Leu Asp Asn Ser  
 65 70 75 80  
 Gly Lys Asn Ala Phe Arg Arg Met Gly Gln Pro Lys Arg Leu Asn Phe  
 85 90 95  
 Ser Val Glu Leu Ser Lys Met Ser Ser Asn Lys Leu Lys Leu Asn Ala  
 100 105 110  
 Leu Lys Lys Lys Asn Gln Leu Val Gln Lys Ala Ile Leu Gln Lys Asn  
 115 120 125  
 Lys Ser Ala Lys Gln Lys Ala Asp Leu Lys Asn Ala Cys Glu Ser Ser  
 130 135 140  
 Ser His Ile Cys Pro Tyr Cys Asn Arg Glu Phe Thr Tyr Ile Gly Ser  
 145 150 155 160  
 Leu Asn Lys His Ala Ala Phe Ser Cys Pro Lys Lys Pro Leu Ser Pro  
 165 170 175  
 Pro Lys Lys Lys Val Ser His Ser Ser Lys Lys Gly Gly His Ser Ser  
 180 185 190  
 Pro Ala Ser Ser Asp Lys Asn Ser Asn Ser Asn His Arg Arg Arg Thr  
 195 200 205  
 Ala Asp Ala Glu Ile Lys Met Gln Ser Met Gln Thr Pro Leu Gly Lys  
 210 215 220  
 Thr Arg Ala Arg Ser Ser Gly Pro Thr Gln Val Pro Leu Pro Ser Ser  
 225 230 235 240  
 Ser Phe Arg Ser Lys Gln Asn Val Lys Phe Ala Ala Ser Val Lys Ser  
 245 250 255  
 Lys Lys Pro Ser Ser Ser Ser Leu Arg Asn Ser Ser Pro Ile Arg Met  
 260 265 270  
 Ala Lys Ile Thr His Val Glu Gly Lys Lys Pro Lys Ala Val Ala Lys  
 275 280 285  
 Asn His Ser Ala Gln Leu Ser Ser Lys Thr Ser Arg Ser Leu His Val  
 290 295 300

Arg Val Gln Lys Ser Lys Ala Val Leu Gln Ser Lys Ser Thr Leu Ala  
305 310 315 320

Ser Lys Lys Arg Thr Asp Arg Phe Asn Ile Lys Ser Arg Glu Arg Ser  
325 330 335

Gly Gly Pro Val Thr Arg Ser Leu Gln Leu Ala Ala Ala Asp Leu  
340 345 350

Ser Glu Asn Lys Arg Glu Asp Gly Ser Ala Ser Arg Ser  
355 360 365

<210> 1216

<211> 558

<212> PRT

<213> Homo sapiens

<400> 1216

Ala His Ala Ser Ala His Ala Ala Thr Pro Arg Arg Leu Trp Ala Leu  
1 5 10 15

Ser Ile Val Ser Phe Ser Ser Ala Gly Ala Ala Met Ala Ala Val Lys  
20 25 30

Thr Leu Asn Pro Lys Ala Glu Val Ala Arg Ala Gln Ala Ala Leu Ala  
35 40 45

Val Asn Ile Ser Ala Ala Arg Gly Leu Gln Asp Val Leu Arg Thr Asn  
50 55 60

Leu Gly Pro Lys Gly Thr Met Lys Met Leu Val Ser Gly Ala Gly Asp  
65 70 75 80

Ile Lys Leu Thr Lys Asp Gly Asn Val Leu Leu His Glu Met Gln Ile  
85 90 95

Gln His Pro Thr Ala Ser Leu Ile Ala Lys Val Ala Thr Ala Gln Asp  
100 105 110

Asp Ile Thr Gly Asp Gly Thr Thr Ser Asn Val Leu Ile Ile Gly Glu  
115 120 125

Leu Leu Lys Gln Ala Asp Leu Tyr Ile Ser Glu Gly Leu His Pro Arg  
130 135 140

Ile Ile Thr Glu Gly Phe Glu Ala Ala Lys Glu Lys Ala Leu Gln Phe  
145 150 155 160

Leu Glu Glu Val Lys Val Ser Arg Glu Met Asp Arg Glu Thr Leu Ile

165	170	175
Asp Val Ala Arg Thr Ser Leu Arg Thr Lys Val His Ala Glu Leu Ala		
180	185	190
Asp Val Leu Thr Glu Ala Val Val Asp Ser Ile Leu Ala Ile Lys Lys		
195	200	205
Gln Asp Glu Pro Ile Asp Leu Phe Met Ile Glu Ile Met Glu Met Lys		
210	215	220
His Lys Ser Glu Thr Asp Thr Ser Leu Ile Arg Gly Leu Val Leu Asp		
225	230	235
His Gly Ala Arg His Pro Asp Met Lys Lys Arg Val Glu Asp Ala Tyr		
245	250	255
Ile Leu Thr Cys Asn Val Ser Leu Glu Tyr Glu Lys Thr Glu Val Asn		
260	265	270
Ser Gly Phe Phe Tyr Lys Ser Ala Glu Glu Arg Glu Lys Leu Val Lys		
275	280	285
Ala Glu Arg Lys Phe Ile Glu Asp Arg Val Lys Lys Ile Ile Glu Leu		
290	295	300
Lys Arg Lys Val Cys Gly Asp Ser Asp Lys Gly Phe Val Val Ile Asn		
305	310	315
Gln Lys Gly Ile Asp Pro Phe Ser Leu Asp Ala Leu Ser Lys Glu Gly		
325	330	335
Ile Val Ala Leu Arg Arg Ala Lys Arg Arg Asn Met Glu Arg Leu Thr		
340	345	350
Leu Ala Cys Gly Gly Val Ala Leu Asn Ser Phe Asp Asp Leu Ser Pro		
355	360	365
Asp Cys Leu Gly His Ala Gly Leu Val Tyr Glu Tyr Thr Leu Gly Glu		
370	375	380
Glu Lys Phe Thr Phe Ile Glu Lys Cys Asn Asn Pro Arg Ser Val Thr		
385	390	395
Leu Leu Ile Lys Gly Pro Asn Lys His Thr Leu Thr Gln Ile Lys Asp		
405	410	415
Ala Val Arg Asp Gly Leu Arg Ala Val Lys Asn Ala Ile Asp Asp Gly		
420	425	430
Cys Val Val Pro Gly Ala Gly Ala Val Glu Val Ala Met Ala Glu Ala		



435 440 445  
Leu Ile Lys His Lys Pro Ser Val Lys Gly Arg Ala Gln Leu Gly Val  
450 455 460  
Gln Ala Phe Ala Asp Ala Leu Leu Ile Ile Pro Lys Val Leu Ala Gln  
465 470 475 480  
Asn Ser Gly Phe Asp Leu Gln Glu Thr Leu Val Lys Ile Gln Ala Glu  
485 490 495  
His Ser Glu Ser Gly Gln Leu Val Gly Val Asp Leu Asn Thr Gly Glu  
500 505 510  
Pro Met Val Ala Ala Glu Val Gly Val Trp Asp Asn Tyr Cys Val Lys  
515 520 525  
Lys Gln Leu Leu His Ser Cys Thr Val Ile Ala Thr Asn Ile Leu Leu  
530 535 540  
Val Asp Glu Ile Met Arg Ala Gly Met Ser Ser Leu Lys Gly  
545 550 555

<210> 1217

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (192)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (218)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1217  
 Leu Lys Val Leu Trp Cys Phe Leu Ile His Val Gln Gly Ser Ile Arg  
 1 5 10 15  
 Gln Phe Ala Ala Cys Leu Val Leu Thr Asp Phe Gly Ile Ala Val Phe  
 20 25 30  
 Glu Ile Pro His Gln Glu Ser Arg Gly Ser Ser Gln His Ile Leu Ser  
 35 40 45  
 Ser Leu Arg Phe Val Phe Cys Phe Pro His Gly Asp Leu Thr Glu Phe  
 50 55 60  
 Gly Phe Leu Met Pro Glu Leu Cys Leu Val Leu Lys Val Arg His Ser  
 65 70 75 80  
 Glu Asn Thr Leu Phe Ile Ile Ser Asp Ala Ala Asn Leu His Glu Phe  
 85 90 95  
 His Xaa Asp Leu Arg Ser Cys Phe Ala Pro Gln His Met Ala Met Leu  
 100 105 110  
 Cys Ser Pro Ile Leu Tyr Gly Ser His Thr Ser Leu Gln Glu Phe Leu  
 115 120 125  
 Arg Gln Leu Leu Thr Phe Tyr Lys Val Ala Gly Gly Cys Gln Glu Arg  
 130 135 140

Xaa Xaa Gly Cys Phe Pro Val Tyr Leu Val Tyr Ser Asp Lys Arg Met  
145 150 155 160

Val Gln Thr Ala Ala Gly Asp Tyr Ser Gly Asn Ile Glu Trp Pro Ala  
165 170 175

Ala His Ser Val Gln Pro Cys Gly Xaa Pro Ala Ala Arg Pro Leu Xaa  
180 185 190

Pro Ser Ser Pro Pro Pro Xaa Pro Thr Gly Cys Cys Ser Xaa Pro Ser  
195 200 205

Thr Gln Ser Xaa Gln Ser Arg Leu Gln Xaa His Ala Gln Thr Val Glu  
210 215 220

Pro Lys  
225

<210> 1218  
<211> 255  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1218  
Cys Xaa Leu Pro Gly Cys Glu Ala His Ile Ile Pro Phe Ile Leu Asp  
1 5 10 15

Glu Ile Gly Ala Asp Ile Glu Asp Arg His Ile Val Val Ser Cys Ala  
20 25 30

Ala Gly Val Thr Ile Ser Ser Ile Glu Lys Lys Leu Ser Ala Phe Arg  
35 40 45

Pro Ala Pro Arg Val Ile Arg Cys Met Thr Asn Thr Pro Val Val Val  
50 55 60

Arg Glu Gly Ala Thr Val Tyr Ala Thr Gly Thr His Ala Gln Val Glu  
65 70 75 80

Asp Gly Arg Leu Met Glu Gln Leu Leu Ser Ser Val Gly Phe Cys Thr  
85 90 95

Glu Val Glu Glu Asp Leu Ile Asp Ala Val Thr Gly Leu Ser Gly Ser

100	105	110
Gly Pro Ala Tyr Ala Phe Thr Ala Leu Asp Ala Leu Ala Asp Gly Gly		
115	120	125
Val Lys Met Gly Leu Pro Arg Arg Leu Ala Val Arg Leu Gly Ala Gln		
130	135	140
Ala Leu Leu Gly Ala Ala Lys Met Leu Leu His Ser Glu Gln His Pro		
145	150	155
Gly Gln Leu Lys Asp Asn Val Ser Ser Pro Gly Gly Ala Thr Ile His		
165	170	175
Ala Leu His Val Leu Glu Ser Gly Gly Phe Arg Ser Leu Leu Ile Asn		
180	185	190
Ala Val Glu Ala Ser Cys Ile Arg Thr Arg Glu Leu Gln Ser Met Ala		
195	200	205
Asp Gln Glu Gln Val Ser Pro Ala Ala Ile Lys Lys Thr Ile Leu Asp		
210	215	220
Lys Val Lys Leu Asp Ser Pro Ala Gly Thr Ala Leu Ser Pro Ser Gly		
225	230	235
His Thr Lys Leu Leu Pro Arg Ser Leu Ala Pro Ala Gly Lys Asp		
245	250	255

&lt;210&gt; 1219

&lt;211&gt; 590

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (161)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1219  
 Ala Gln Val Arg Ala Pro Pro Trp Leu Cys Cys Pro Arg Ala Trp Thr  
     1                    5                    10                    15  
 Xaa Cys Pro Pro Pro Ala Cys Arg Arg Ala Gly Arg Pro Thr Arg Pro  
           20                    25                    30  
 Ser Cys Ser Ala Val Thr Ala Pro Gly Ser Gly Gly Leu Val Ala Gly  
       35                    40                    45  
 Gly Pro Glu Ala Phe Ala Ala Phe Leu Arg Arg Glu Arg Leu Ala Arg  
       50                    55                    60  
 Phe Leu Asn Pro Asp Glu Val His Ala Ile Leu Arg Ala Ala Glu Arg  
       65                    70                    75                    80  
 Pro Gly Glu Glu Gly Ala Ala Ala Ala Ala Ala Arg Thr Arg Ser  
           85                    90                    95  
 Ala Pro Arg Thr Thr Ala Leu Arg Ala Leu Leu Pro Arg Ala Val Gly  
       100                    105                    110

Pro Gly Ala Xaa Ala Val Gly Ala Trp Leu Ala Arg Leu Leu Xaa Gly  
 115 120 125

Arg Leu Xaa Arg Arg Xaa Ala Cys Arg Asp Ala Leu Pro Ala Pro Arg  
 130 135 140

Arg Trp Arg Arg Trp Pro Leu Arg Leu Gln Gly Arg Ser Xaa Pro His  
 145 150 155 160

Xaa Arg Ser Ala Arg Glu Val Ile Ala Val Val Met Asp Val Phe Thr  
 165 170 175

Asp Ile Asp Ile Phe Arg Asp Leu Gln Glu Ile Cys Arg Lys Gln Gly  
 180 185 190

Val Ala Val Tyr Ile Leu Leu Asp Gln Ala Leu Leu Ser Gln Phe Leu  
 195 200 205

Asp Met Cys Met Xaa Leu Lys Xaa His Pro Glu Gln Glu Lys Leu Met  
 210 215 220

Thr Val Arg Thr Ile Thr Gly Asn Ile Tyr Tyr Ala Arg Ser Gly Thr  
 225 230 235 240

Lys Ile Ile Gly Lys Val His Glu Lys Phe Thr Leu Ile Asp Gly Ile  
 245 250 255

Arg Val Ala Thr Gly Ser Tyr Ser Phe Thr Trp Thr Asp Gly Lys Leu  
 260 265 270

Asn Ser Ser Asn Leu Val Ile Leu Ser Gly Gln Val Val Glu His Phe  
 275 280 285

Asp Leu Glu Phe Arg Ile Leu Tyr Ala Gln Ser Lys Pro Ile Ser Pro  
 290 295 300

Lys Leu Leu Ser His Phe Gln Ser Ser Asn Lys Phe Asp His Leu Thr  
 305 310 315 320

Asn Arg Lys Pro Gln Ser Lys Glu Leu Thr Leu Gly Asn Leu Leu Arg  
 325 330 335

Met Arg Leu Ala Arg Leu Ser Ser Thr Pro Arg Lys Ala Asp Leu Asp  
 340 345 350

Pro Glu Met Pro Ala Glu Gly Lys Ala Glu Arg Lys Pro His Asp Cys  
 355 360 365

Glu Ser Ser Thr Val Ser Glu Glu Asp Tyr Phe Ser Ser His Arg Asp  
 370 375 380

Glu Leu Gln Ser Arg Lys Ala Ile Asp Ala Ala Thr Gln Thr Glu Pro  
385 390 395 400

Gly Glu Glu Met Pro Gly Leu Ser Val Ser Glu Val Gly Thr Gln Thr  
405 410 415

Ser Ile Thr Thr Ala Cys Ala Gly Thr Gln Thr Ala Val Ile Thr Arg  
420 425 430

Ile Ala Ser Ser Gln Thr Thr Ile Trp Ser Arg Ser Thr Thr Thr Gln  
435 440 445

Thr Asp Met Asp Glu Asn Ile Leu Phe Pro Arg Gly Thr Gln Ser Thr  
450 455 460

Glu Gly Ser Pro Val Ser Lys Met Ser Val Ser Arg Ser Ser Ser Leu  
465 470 475 480

Lys Ser Ser Ser Ser Val Ser Ser Gln Gly Ser Val Ala Ser Ser Thr  
485 490 495

Gly Ser Pro Ala Ser Ile Arg Thr Thr Asp Phe His Asn Pro Gly Tyr  
500 505 510

Pro Lys Tyr Leu Gly Thr Pro His Leu Glu Leu Tyr Leu Ser Asp Ser  
515 520 525

Leu Arg Asn Leu Asn Lys Glu Arg Gln Phe His Phe Ala Gly Ile Arg  
530 535 540

Ser Arg Leu Asn His Met Leu Ala Met Leu Ser Arg Arg Thr Leu Phe  
545 550 555 560

Thr Glu Asn His Leu Gly Leu His Ser Gly Asn Phe Ser Arg Val Asn  
565 570 575

Leu Leu Ala Val Arg Asp Val Ala Leu Tyr Pro Ser Tyr Gln  
580 585 590

&lt;210&gt; 1220

&lt;211&gt; 451

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1220

Val Glu Ile Ser Gly Pro Arg Pro Val Asp Trp Glu Val Arg Pro Pro  
 1 5 10 15

Leu Gln Arg Leu Gly Leu Cys Phe Gly Ser Cys Arg Xaa Gln Gln Ser  
 20 25 30

Leu Pro Gly Arg Gly Ser Ala Asn Leu Leu Pro Ser Val Arg Ser Glu  
 35 40 45

Ser Ala Val Leu Ser Asp Cys Val Gly Gly Phe Pro Gly Arg Ser Ser  
 50 55 60

Val Arg Ala Trp Ile Ala Gly Pro Arg Cys Thr Pro Ala Ser Pro Thr  
 65 70 75 80

Arg Val Leu Ser Leu Ser Trp Arg Leu Phe Asn Ser Ala Ser Leu Leu  
 85 90 95

Leu Leu Ala Thr Ser Thr Ser Gly Ser Glu Cys Arg Phe Pro Arg Ser  
 100 105 110

Pro Arg Ala Arg Glu Arg Gly Ile Pro Asp Cys Glu Arg Leu Leu Val  
 115 120 125

Arg Arg Ser Cys Trp Arg Ser Gly Asp Pro Arg Pro Ala Gly Pro Ala  
 130 135 140

Gly His Ala Ala Gly Ala Phe Ser Thr Pro Gln Tyr Leu Gly Gly Thr  
 145 150 155 160

Ala Met Val Leu Leu His Val Lys Arg Gly Asp Glu Ser Gln Phe Leu  
 165 170 175

Leu Gln Ala Pro Gly Ser Thr Glu Leu Glu Glu Leu Thr Val Gln Val  
 180 185 190

Ala Arg Val Tyr Asn Gly Arg Leu Lys Val Gln Arg Leu Cys Ser Glu  
 195 200 205

Met Glu Glu Leu Ala Glu His Gly Ile Phe Leu Pro Pro Asn Met Gln  
 210 215 220

Gly Leu Thr Asp Asp Gln Ile Glu Glu Leu Lys Leu Lys Asp Glu Trp  
 225 230 235 240

Gly Glu Lys Cys Val Pro Ser Gly Gly Ala Val Phe Lys Lys Asp Asp  
 245 250 255

Ile Gly Arg Arg Asn Gly Gln Ala Pro Asn Glu Lys Met Lys Gln Val



260 265 270

Leu Lys Lys Thr Ile Glu Glu Ala Lys Ala Ile Ile Ser Lys Lys Gln  
275 280 285

Val Glu Ala Gly Val Cys Val Thr Met Glu Met Val Lys Asp Ala Leu  
290 295 300

Asp Gln Leu Arg Gly Ala Val Met Ile Val Tyr Pro Met Gly Leu Pro  
305 310 315 320

Pro Tyr Asp Pro Ile Arg Met Glu Phe Glu Asn Lys Glu Asp Leu Ser  
325 330 335

Gly Thr Gln Ala Gly Leu Asn Val Ile Lys Glu Ala Glu Ala Gln Leu  
340 345 350

Trp Trp Ala Ala Lys Glu Leu Arg Arg Thr Lys Lys Leu Ser Asp Tyr  
355 360 365

Val Gly Lys Asn Glu Lys Thr Lys Ile Ile Ala Lys Ile Gln Gln Arg  
370 375 380

Gly Gln Gly Ala Pro Ala Arg Glu Pro Ile Ile Ser Ser Glu Glu Gln  
385 390 395 400

Lys Gln Leu Met Leu Tyr Tyr His Arg Arg Gln Glu Glu Leu Lys Arg  
405 410 415

Leu Glu Glu Asn Asp Asp Asp Ala Tyr Leu Asn Ser Pro Trp Ala Asp  
420 425 430

Asn Thr Ala Leu Lys Arg His Phe His Gly Val Lys Asp Ile Lys Trp  
435 440 445

Arg Pro Arg  
450

<210> 1221

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1221

Ala Glu Pro Gly Leu Ser Asn Pro Trp Gly Ala Gly Ser Xaa Ala Leu  
 1 5 10 15  
 Gly His Thr Trp Leu Pro Ala Pro Met Val Pro Val Pro Trp Asn Gly  
 20 25 30  
 Asp Gly Gln Phe Trp Gly Gln Met Trp Cys Ser Gly Ile Gln Ser His  
 35 40 45  
 Phe Leu Pro Gly His Glu Leu Ser Gln Arg Pro Leu Gln Pro His Ser  
 50 55 60  
 Ala Pro Thr Tyr Leu Gly Thr Pro Ala Gly Ala Arg Glu Ala Pro Gly  
 65 70 75 80  
 Gly Leu Gly Pro Lys  
 85

&lt;210&gt; 1222

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1222

Gly Leu Pro Glu His Val Val Pro Arg Leu Leu Gln Gly Val Glu Val  
 1 5 10 15  
 Ser Trp Gly Trp Pro Arg Pro Arg Leu Leu Ser Gln Gly Glu Ala Ala  
 20 25 30  
 Thr Asp Ser His Pro Thr Ala Leu Leu Lys Arg Met Phe Ala Val Val  
 35 40 45  
 Gly Gly Val Pro Val Pro Thr Leu Pro Gly Thr Arg Pro Trp Gly Thr  
 50 55 60  
 Leu Ala Gln Gly Cys Leu Gly Pro Ala Ser Cys Ala Ala Lys Val Gly  
 65 70 75 80  
 Gly Pro His Pro Lys Thr Asn Pro Gly Pro Arg Pro Leu Glu Ala Arg  
 85 90 95  
 Ala Ser Leu His Gly Leu Arg Gly Val Gly Ile Ser Pro Gln Ser Asp  
 100 105 110  
 Leu Ala Ser Glu Leu Phe Ser Arg  
 115 120

<210> 1223  
 <211> 228  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (215)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1223  
 Ala Glu Thr His Phe Ser Leu Pro Glu Phe Glu Pro Pro Phe Pro Ser  
   1                  5                  10                  15  
 Ser Arg Ser Pro Thr Pro Gly Ala Met Asp Pro Phe Thr Glu Lys Leu  
                   20                  25                  30  
 Leu Glu Arg Thr Arg Ala Arg Arg Glu Asn Leu Gln Arg Lys Met Ala  
           35                  40                  45  
 Glu Arg Pro Thr Ala Ala Pro Arg Ser Met Thr His Ala Lys Arg Ala  
   50                  55                  60  
 Arg Gln Pro Leu Ser Glu Ala Ser Asn Gln Gln Pro Leu Ser Gly Gly  
   65                  70                  75                  80  
 Glu Glu Lys Ser Cys Thr Lys Pro Ser Pro Ser Lys Lys Arg Cys Ser  
                   85                  90                  95  
 Asp Asn Thr Glu Val Glu Val Ser Asn Leu Glu Asn Lys Gln Pro Val  
           100                  105                  110  
 Glu Ser Thr Ser Ala Lys Ser Cys Ser Pro Ser Pro Val Ser Pro Gln  
   115                  120                  125

Val Gln Pro Gln Ala Ala Asp Thr Ile Ser Asp Ser Val Ala Val Pro  
130 135 140

Ala Ser Leu Leu Gly Met Arg Arg Gly Leu Asn Ser Arg Leu Glu Ala  
145 150 155 160

Thr Ala Ala Xaa Ser Val Lys Thr Arg Met Gln Lys Leu Ala Glu Gln  
165 170 175

Arg Arg Arg Trp Asp Asn Asp Asp Met Thr Asp Asp Ile Pro Glu Ser  
180 185 190

Ser Leu Phe Ser Pro Met Pro Ser Glu Glu Lys Xaa Ala Phe Pro Ser  
195 200 205

Gln Thr Ser Xaa Phe Gln Xaa Ala Phe Gly Asn Phe Gln Leu Ala Lys  
210 215 220

Lys Gly Ala Arg  
225

<210> 1224

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1224

Val Asp Cys Gly Asn Xaa Ala Ala Lys Trp Phe Thr Asn Phe Leu Lys  
1 5 10 15

Thr Glu Ala Tyr Arg Leu Val Gln Phe Xaa Thr Asn Met Lys Gly Arg  
20 25 30

Thr Ser Arg Lys Leu Leu Pro Thr Leu Asp Gln Asn Phe Gln Val Ala

35                                      40                                      45  
 Tyr Pro Asp Tyr Cys Pro Leu Leu Ile Met Thr Asp Ala Ser Leu Val  
     50                                      55                                      60  
 Asp Leu Asn Thr Arg Met Glu Lys Lys Met Lys Met Glu Asn Phe Arg  
     65                                      70                                      75                                      80  
 Pro Asn Ile Val Val Thr Gly Cys Asp Ala Phe Glu Glu Asp Thr Trp  
                                     85                                      90                                      95  
 Asp Glu Leu Leu Ile Gly Ser Val Glu Val Lys Lys Val Met Ala Cys  
                                     100                                      105                                      110  
 Pro Arg Cys Ile Leu Thr Thr Val Asp Pro Asp Thr Gly Val Ile Asp  
                                     115                                      120                                      125  
 Arg Lys Gln Pro Leu Asp Thr Leu Lys Ser Tyr Arg Leu Xaa Asp Pro  
                                     130                                      135                                      140  
 Ser Glu Arg Glu Leu Tyr Lys Leu Ser Pro Leu Phe Gly Ile Tyr Tyr  
     145                                      150                                      155                                      160  
 Ser Val Glu Lys Ile Gly Ser Leu Arg Val Gly Asp Pro Val Tyr Arg  
                                     165                                      170                                      175

Met Val

<210> 1225

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1225

Arg Asn Ile Trp Lys Arg Gln Lys Thr Lys Lys Glu Glu Lys Arg Ser  
     1                                      5                                      10                                      15  
 Leu Leu Asp Thr Leu Leu Lys Tyr Asn His Ile Asn Ile Leu Ser Tyr  
                                     20                                      25                                      30  
 Phe Leu Pro Ala Phe Leu Gly Gln Ile Leu Val Gly Phe Tyr Ile Val  
                                     35                                      40                                      45  
 Glu Ile Val Leu Phe Ile Gln Phe Tyr Thr Leu Phe His Leu Thr Leu  
                                     50                                      55                                      60

<210> 1226  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 1226

Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu  
1 5 10 15  
Leu Val Asp Pro Pro Gly Cys Arg Asn Val Thr Ile Ser Thr Cys Cys  
20 25 30

Pro

<210> 1227  
<211> 402  
<212> PRT  
<213> Homo sapiens

<400> 1227

Asp Gln Ala Gly Pro Ala Ser Ala Glu Gln Leu His Ala Gly Pro Ala  
1 5 10 15  
Thr Glu Glu Pro Gly Pro Cys Leu Ser Gln Gln Leu His Ser Ala Ser  
20 25 30  
Ala Glu Asp Thr Pro Val Val Gln Leu Ala Ala Glu Thr Pro Thr Ala  
35 40 45  
Glu Ser Lys Glu Arg Ala Leu Asn Ser Ala Ser Thr Ser Leu Pro Thr  
50 55 60  
Ser Cys Pro Gly Ser Glu Pro Val Pro Thr His Gln Gln Gly Gln Pro  
65 70 75 80  
Ala Leu Glu Leu Lys Glu Glu Ser Phe Arg Asp Pro Ala Glu Val Leu  
85 90 95  
Gly Thr Gly Ala Glu Val Asp Tyr Leu Glu Gln Phe Gly Thr Ser Ser  
100 105 110  
Phe Lys Glu Ser Ala Leu Arg Lys Gln Ser Leu Tyr Leu Lys Phe Asp  
115 120 125  
Pro Leu Leu Arg Asp Ser Pro Gly Arg Pro Val Pro Val Ala Thr Glu

130	135	140
Thr Ser Ser Met His Gly Ala Asn Glu Thr Pro Ser Gly Arg Pro Arg		
145	150	155 160
Glu Ala Lys Leu Val Glu Phe Asp Phe Leu Gly Ala Leu Asp Ile Pro		
	165	170 175
Val Pro Gly Pro Pro Pro Gly Val Pro Ala Pro Gly Gly Pro Pro Leu		
	180	185 190
Ser Thr Gly Pro Ile Val Asp Leu Leu Gln Tyr Ser Gln Lys Asp Leu		
	195	200 205
Asp Ala Val Val Lys Ala Thr Gln Glu Glu Asn Arg Glu Leu Arg Ser		
	210	215 220
Arg Cys Glu Glu Leu His Gly Lys Asn Leu Glu Leu Gly Lys Ile Met		
	225	230 235 240
Asp Arg Phe Glu Glu Val Val Tyr Gln Ala Met Glu Glu Val Gln Lys		
	245	250 255
Gln Lys Glu Leu Ser Lys Ala Glu Ile Gln Lys Val Leu Lys Glu Lys		
	260	265 270
Asp Gln Leu Thr Thr Asp Leu Asn Ser Met Glu Lys Ser Phe Ser Asp		
	275	280 285
Leu Phe Lys Arg Phe Glu Lys Gln Lys Glu Val Ile Glu Gly Tyr Arg		
	290	295 300
Lys Asn Glu Glu Ser Leu Lys Lys Cys Val Glu Asp Tyr Leu Ala Arg		
	305	310 315 320
Ile Thr Gln Glu Gly Gln Arg Tyr Gln Ala Leu Lys Ala His Ala Glu		
	325	330 335
Glu Lys Leu Gln Leu Ala Asn Glu Glu Ile Ala Gln Val Arg Ser Lys		
	340	345 350
Ala Gln Ala Glu Ala Leu Ala Leu Gln Ala Ser Leu Arg Lys Glu Gln		
	355	360 365
Met Arg Ile Gln Ser Leu Glu Lys Thr Val Glu Gln Lys Thr Lys Glu		
	370	375 380
Asn Glu Glu Leu Thr Arg Ile Cys Asp Asp Leu Ile Ser Lys Met Glu		
	385	390 395 400
Lys Ile		

<210> 1228  
 <211> 460  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (435)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1228  
 Lys Gly Ala Gly Arg Cys Arg Leu Ser Lys Ile Gly Ala Thr Arg Arg  
   1                  5                  10                  15  
 Pro Pro Pro Ala Arg Val Arg Val Ala Val Arg Leu Arg Pro Phe Val  
           20                  25                  30  
 Asp Gly Thr Ala Gly Ala Ser Asp Pro Pro Cys Val Arg Gly Met Asp  
       35                  40                  45  
 Ser Cys Ser Leu Glu Ile Ala Asn Trp Arg Asn His Gln Glu Thr Leu  
       50                  55                  60  
 Lys Tyr Gln Phe Asp Ala Phe Tyr Gly Glu Xaa Ser Thr Gln Gln Asp  
   65                  70                  75                  80  
 Ile Tyr Ala Gly Ser Val Gln Pro Ile Leu Arg His Leu Leu Glu Gly  
           85                  90                  95  
 Gln Asn Ala Ser Val Leu Ala Tyr Gly Pro Thr Gly Ala Gly Lys Thr  
       100                  105                  110  
 His Thr Met Leu Gly Ser Pro Glu Gln Pro Gly Val Ile Pro Arg Ala  
       115                  120                  125  
 Leu Met Asp Leu Leu Gln Leu Thr Arg Glu Glu Gly Ala Glu Gly Arg  
       130                  135                  140



Pro Trp Xaa Leu Ser Val Thr Met Ser Tyr Leu Glu Ile Tyr Gln Glu  
145 150 155 160

Lys Val Leu Asp Leu Leu Asp Pro Ala Ser Gly Asp Leu Val Ile Arg  
165 170 175

Glu Asp Cys Arg Gly Asn Ile Leu Ile Pro Gly Leu Ser Gln Lys Pro  
180 185 190

Ile Ser Ser Phe Ala Asp Phe Glu Arg His Phe Leu Pro Ala Ser Arg  
195 200 205

Asn Arg Thr Val Gly Ala Thr Arg Leu Asn Gln Arg Ser Ser Arg Ser  
210 215 220

His Ala Val Leu Leu Val Lys Val Asp Gln Arg Glu Arg Leu Ala Pro  
225 230 235 240

Phe Arg Gln Arg Glu Gly Lys Leu Tyr Leu Ile Asp Leu Ala Gly Ser  
245 250 255

Glu Asp Asn Arg Arg Thr Gly Asn Lys Gly Leu Arg Leu Lys Glu Ser  
260 265 270

Gly Ala Ile Asn Thr Ser Leu Phe Val Leu Gly Lys Val Val Asp Ala  
275 280 285

Leu Asn Gln Gly Leu Pro Arg Val Pro Tyr Arg Asp Ser Lys Leu Thr  
290 295 300

Arg Leu Leu Gln Asp Ser Leu Gly Gly Ser Ala His Ser Ile Leu Ile  
305 310 315 320

Ala Asn Ile Ala Pro Glu Arg Arg Phe Tyr Leu Asp Thr Val Ser Ala  
325 330 335

Leu Asn Phe Ala Ala Arg Ser Lys Glu Val Ile Asn Arg Pro Phe Thr  
340 345 350

Asn Glu Ser Leu Gln Pro His Ala Leu Gly Pro Val Lys Leu Ser Gln  
355 360 365

Lys Glu Leu Leu Gly Pro Pro Glu Ala Lys Arg Ala Arg Gly Pro Glu  
370 375 380

Glu Glu Glu Ile Gly Ser Pro Glu Pro Met Ala Ala Pro Ala Ser Ala  
385 390 395 400

Ser Gln Lys Leu Ser Pro Leu Gln Lys Leu Ser Ser Met Asp Pro Ala  
405 410 415

Met Leu Glu Arg Leu Leu Gln Leu Gly Pro Ser Ala Cys Leu Pro Gly  
 420 425 430

Glu Pro Xaa Gly Pro Ser Val Glu Tyr Pro Lys Ala Arg Ala Asp Gly  
 435 440 445

Ala Asn Glu Asp Ser Arg Arg Glu Gly Pro Arg Asp  
 450 455 460

<210> 1229

<211> 239

<212> PRT

<213> Homo sapiens

<400> 1229

Ala Arg Gly Arg Leu Ala Phe Pro Cys Gly Arg Pro Asp Tyr Trp Ala  
 1 5 10 15

Leu Ala Arg Arg Thr Ile Gly Thr Gly Leu Glu Arg Lys Ala Leu Gly  
 20 25 30

Leu Pro Gly Ser Ser Glu Arg Pro Thr Ser Val Ser Ser Tyr Gln Gly  
 35 40 45

Thr Arg Ile Arg Cys Ser Asn Pro Gly Gly Lys Met Arg Pro Leu Thr  
 50 55 60

Glu Glu Glu Thr Arg Val Met Phe Glu Lys Ile Ala Lys Tyr Ile Gly  
 65 70 75 80

Glu Asn Leu Gln Leu Leu Val Asp Arg Pro Asp Gly Thr Tyr Cys Phe  
 85 90 95

Arg Leu His Asn Asp Arg Val Tyr Tyr Val Ser Glu Lys Ile Met Lys  
 100 105 110

Leu Ala Ala Asn Ile Ser Gly Asp Lys Leu Val Ser Leu Gly Thr Cys  
 115 120 125

Phe Gly Lys Phe Thr Lys Thr His Lys Phe Arg Leu His Val Thr Ala  
 130 135 140

Leu Asp Tyr Leu Ala Pro Tyr Ala Lys Tyr Lys Val Trp Ile Lys Pro  
 145 150 155 160

Gly Ala Glu Gln Ser Phe Leu Tyr Gly Asn His Val Leu Lys Ser Gly  
 165 170 175

Leu Gly Arg Ile Thr Glu Asn Thr Ser Gln Tyr Gln Gly Val Val Val  
 180 185 190  
 Tyr Ser Met Ala Asp Ile Pro Leu Gly Phe Gly Val Ala Ala Lys Ser  
 195 200 205  
 Thr Gln Asp Cys Arg Lys Val Asp Pro Met Ala Ile Val Val Phe His  
 210 215 220  
 Gln Ala Asp Ile Gly Glu Tyr Val Arg His Glu Glu Thr Leu Thr  
 225 230 235

<210> 1230

<211> 276

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (253)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1230

Ser Ala Val Val Ser Gly Cys Arg Val Arg Ser Cys Thr Ser Phe Ser  
 1 5 10 15  
 Asp Glu Pro Met Thr Gly Trp Met Ala Ala Ala Val Val Thr Leu Met  
 20 25 30  
 Ile Arg Met Cys Phe Ser Val Tyr Thr Met Leu Ser Glu Ser Cys Gln  
 35 40 45  
 Arg Met Val Ile Val Gly Tyr Gly Xaa Leu Leu Arg Arg Gln Ala Glu  
 50 55 60  
 Leu Asp Gly Met Pro Ala Ile Asn Ala Lys Arg Val Tyr Arg Ile Met  
 65 70 75 80  
 Arg Gln Asn Ala Leu Leu Leu Glu Arg Lys Pro Ala Val Pro Pro Ser  
 85 90 95  
 Lys Arg Ala His Thr Gly Arg Val Ala Val Lys Glu Ser Asn Gln Arg  
 100 105 110

Trp Cys Ser Asp Gly Phe Glu Phe Cys Cys Asp Asn Gly Glu Arg Leu  
 115 120 125  
 Arg Val Thr Phe Ala Leu Asp Cys Cys Asp Arg Glu Ala Leu His Trp  
 130 135 140  
 Ala Val Thr Thr Gly Gly Phe Asn Ser Glu Thr Val Gln Asp Val Met  
 145 150 155 160  
 Leu Gly Ala Val Glu Arg Arg Phe Gly Asn Asp Leu Pro Ser Ser Pro  
 165 170 175  
 Val Glu Trp Leu Thr Asp Asn Gly Ser Cys Tyr Arg Ala Asn Glu Thr  
 180 185 190  
 Arg Gln Phe Ala Arg Met Leu Gly Leu Glu Pro Lys Asn Thr Ala Val  
 195 200 205  
 Arg Ser Pro Glu Ser Asn Gly Ile Ala Glu Ser Phe Val Lys Thr Ile  
 210 215 220  
 Lys Arg Asp Tyr Ile Ser Ile Met Pro Lys Pro Asp Gly Leu Thr Ala  
 225 230 235 240  
 Ala Lys Asn Leu Ala Glu Ala Phe Glu His Tyr Asn Xaa Trp His Pro  
 245 250 255  
 His Ser Ala Leu Gly Tyr Arg Ser Pro Arg Glu Tyr Leu Arg His Gly  
 260 265 270  
 Leu Val Met Gly  
 275

&lt;210&gt; 1231

&lt;211&gt; 296

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1231

Lys Thr Ile His Leu Xaa Thr Phe Ile Val Leu Ile Arg Arg Leu Asp  
 1 5 10 15  
 Cys Asn Phe Asp Ile Lys Val Leu Asn Ala Gln Arg Ala Gly Tyr Lys  
 20 25 30

Ala Ala Ile Val His Asn Val Asp Ser Asp Asp Leu Ile Ser Met Gly  
           35                          40                          45

Ser Asn Asp Ile Glu Val Leu Lys Lys Ile Asp Ile Pro Ser Val Phe  
           50                          55                          60

Ile Gly Glu Ser Ser Ala Asn Ser Leu Lys Asp Glu Phe Thr Tyr Glu  
       65                          70                          75                          80

Lys Gly Gly His Leu Ile Leu Val Pro Glu Phe Ser Leu Pro Leu Glu  
                           85                          90                          95

Tyr Tyr Leu Ile Pro Phe Leu Ile Ile Val Gly Ile Cys Leu Ile Leu  
                           100                          105                          110

Ile Val Ile Phe Met Ile Thr Lys Phe Val Gln Asp Arg His Arg Ala  
           115                          120                          125

Arg Arg Asn Arg Leu Arg Lys Asp Gln Leu Lys Lys Leu Pro Val His  
       130                          135                          140

Lys Phe Lys Lys Gly Asp Glu Tyr Asp Val Cys Ala Ile Cys Leu Asp  
       145                          150                          155                          160

Glu Tyr Glu Asp Gly Asp Lys Leu Arg Ile Leu Pro Cys Ser His Ala  
                           165                          170                          175

Tyr His Cys Lys Cys Val Asp Pro Trp Leu Thr Lys Thr Lys Lys Thr  
                           180                          185                          190

Cys Pro Val Cys Lys Gln Lys Val Val Pro Ser Gln Gly Asp Ser Asp  
       195                          200                          205

Ser Asp Thr Asp Ser Ser Gln Glu Glu Asn Glu Val Thr Glu His Thr  
       210                          215                          220

Pro Leu Leu Arg Pro Leu Ala Ser Val Ser Ala Gln Ser Phe Gly Ala  
       225                          230                          235                          240

Leu Ser Glu Ser Arg Ser His Gln Asn Met Thr Glu Ser Ser Asp Tyr  
                           245                          250                          255

Glu Glu Asp Asp Asn Glu Asp Thr Asp Ser Ser Asp Ala Glu Asn Glu  
           260                          265                          270

Ile Asn Glu His Asp Val Val Val Gln Leu Gln Pro Asn Gly Glu Arg  
       275                          280                          285

Asp Tyr Asn Ile Ala Asn Thr Val  
       290                          295

<210> 1232  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1232  
 Asn Gln His Lys Glu Tyr Asp Lys Thr Pro Val Gly Asn Pro Glu Cys  
 1 5 10 15  
 Ser Gly Pro Ser Cys Gly Leu Phe Tyr Gly Phe Met Lys Gly Pro Cys  
 20 25 30  
 Pro His Gly Gly Asp His Gly Leu Ala Cys Gly Val Leu Gly Asp Gly  
 35 40 45  
 Cys Leu Leu Ser Ser Ser Pro His Pro Ala Ser Cys Trp His Leu Gly  
 50 55 60  
 Glu Glu Ser Ser Lys  
 65

<210> 1233  
 <211> 423  
 <212> PRT  
 <213> Homo sapiens

<400> 1233  
 Leu Tyr Arg Gln Asp Tyr Asn Pro Lys Pro Lys Pro Ser Asn Glu Ile  
 1 5 10 15  
 Thr Arg Glu Tyr Ile Pro Lys Ile Gly Met Thr Thr Tyr Lys Ile Val  
 20 25 30  
 Pro Pro Lys Ser Leu Glu Ile Ser Lys Asp Trp Gln Ser Glu Thr Ile  
 35 40 45  
 Glu Tyr Lys Asp Asp Gln Asp Met His Ala Leu Gly Lys Lys His Thr  
 50 55 60  
 His Glu Asn Val Lys Glu Thr Ala Ile Gln Thr Glu Asp Ser Ala Ile  
 65 70 75 80  
 Ser Glu Ser Pro Glu Glu Pro Leu Pro Asn Leu Lys Pro Lys Pro Asn  
 85 90 95  
 Leu Arg Thr Glu His Gln Val Pro Ser Ser Val Ser Ser Pro Asp Asp

100	105	110
Ala Met Val Ser Pro Leu Lys	Pro Ala Pro Lys Met	Thr Arg Asp Thr
115	120	125
Gly Thr Ala Pro Phe Ala Pro Asn	Leu Glu Glu Ile Asn Asn Ile Leu	
130	135	140
Glu Ser Lys Phe Lys Ser Arg Ala Ser Asn	Ala Gln Ala Lys Pro Ser	
145	150	155 160
Ser Phe Phe Leu Gln Met Gln Lys Arg Val Ser	Gly His Tyr Val Thr	
165	170	175
Ser Ala Ala Ala Lys Ser Val His Ala Ala Pro Asn	Pro Ala Pro Lys	
180	185	190
Glu Leu Thr Asn Lys Glu Ala Glu Arg Asp Met	Leu Pro Ser Pro Glu	
195	200	205
Gln Thr Leu Ser Pro Leu Ser Lys Met Pro His Ser	Val Pro Gln Pro	
210	215	220
Leu Val Glu Lys Thr Asp Asp Asp Val Ile Gly	Gln Ala Pro Ala Glu	
225	230	235 240
Ala Ser Pro Pro Pro Ile Ala Pro Lys Pro Val Thr	Ile Pro Ala Ser	
245	250	255
Gln Val Ser Thr Gln Asn Leu Lys Thr Leu Lys Thr	Phe Gly Ala Pro	
260	265	270
Arg Pro Tyr Ser Ser Ser Gly Pro Ser Pro Phe Ala	Leu Ala Val Val	
275	280	285
Lys Arg Ser Gln Ser Phe Ser Lys Glu Arg Thr Glu Ser	Pro Ser Ala	
290	295	300
Ser Ala Leu Val Gln Pro Pro Ala Asn Thr Glu Glu Gly	Lys Thr His	
305	310	315 320
Ser Val Asn Lys Phe Val Asp Ile Pro Gln Leu Gly Val	Ser Asp Lys	
325	330	335
Glu Asn Asn Ser Ala His Asn Glu Gln Asn Ser Gln Ile	Pro Thr Pro	
340	345	350
Thr Asp Gly Pro Ser Phe Thr Val Met Arg Gln Ser Ser	Leu Thr Phe	
355	360	365
Gln Ser Ser Asp Pro Glu Gln Met Arg Gln Ser Leu Leu Thr	Ala Ile	

370                      375                      380  
 Arg Ser Gly Glu Ala Ala Ala Lys Leu Lys Arg Val Thr Ile Pro Ser  
 385                      390                      395                      400  
 Asn Thr Ile Ser Val Asn Gly Arg Ser Arg Leu Ser His Ser Met Ser  
                     405                      410                      415  
 Pro Asp Ala Gln Asp Gly His  
                     420

<210> 1234

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1234

Thr Ala Lys Lys Asn His Lys Lys Leu Thr Ile Asn Pro Cys Glu Ile  
 1                      5                      10                      15  
 Ser Gly Cys Pro Lys Pro Thr Gln Ile Ile Ala Gly Asp Arg Pro Asp  
                     20                      25                      30  
 Asn His Trp Leu His Tyr Asp Ser Lys Thr Ile Pro Arg Thr Lys Lys  
                     35                      40                      45  
 Glu Trp Glu Ser Ser Cys Phe Val Glu Lys Thr His Trp Gly Tyr Tyr  
                     50                      55                      60  
 Thr Trp Pro Lys Asn Met Val Val Tyr Ala Gly Val Glu Glu Gln Pro  
 65                      70                      75                      80  
 Lys Leu Gly Arg Ser Arg Glu Asp Met Thr Glu Ala Glu Gln Ile Ile  
                     85                      90                      95  
 Phe Asp His Phe Ser Asp Pro Lys Phe Val Glu Gln Leu Ile Thr Phe  
                     100                      105                      110  
 Leu Ser Leu Glu Asp Arg Lys Gly Lys Asp Lys Phe Asn Pro Arg Arg  
                     115                      120                      125  
 Phe Cys Leu Phe Lys Gly Ile Phe Arg Asn Phe Asp Asp Ala Phe Leu  
                     130                      135                      140



Pro Val Leu Lys Pro His Leu Glu His Leu Val Ala Asp Ser His Glu  
 145 150 155 160  
 Ser Thr Gln Arg Cys Val Ala Glu Ile Ile Ala Gly Leu Ile Arg Gly  
 165 170 175  
 Ser Lys His Trp Thr Phe Glu Lys Val Glu Lys Leu Trp Glu Leu Leu  
 180 185 190  
 Cys Pro Leu Leu Arg Thr Ala Leu Ser Asn Ile Thr Val Glu Thr Tyr  
 195 200 205  
 Asn Asp Trp Gly Ala Cys Ile Ala Thr Ser Cys Glu Ser Arg Asp Pro  
 210 215 220  
 Xaa Glu Thr Ser Leu Ala Phe  
 225 230

<210> 1235  
 <211> 302  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (226)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1235  
 Arg Xaa Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ala Val Ala Leu  
 1 5 10 15  
 Tyr Phe Ile Asp Lys Leu Ala Leu Arg Ala Gly Asn Glu Lys Glu Asp  
 20 25 30  
 Gly Glu Ala Ala Asp Thr Val Gly Cys Cys Ser Leu Arg Val Glu His  
 35 40 45  
 Val Gln Leu His Pro Glu Ala Asp Gly Cys Gln His Val Val Glu Phe  
 50 55 60  
 Asp Phe Leu Gly Lys Asp Cys Ile Arg Tyr Tyr Asn Arg Val Pro Val  
 65 70 75 80

Glu Lys Pro Val Tyr Lys Asn Leu Gln Leu Phe Met Glu Asn Lys Asp  
85 90 95

Pro Arg Asp Asp Leu Phe Asp Arg Leu Thr Thr Thr Ser Leu Asn Lys  
100 105 110

His Leu Gln Glu Leu Met Asp Gly Leu Thr Ala Lys Val Phe Arg Thr  
115 120 125

Tyr Asn Ala Ser Ile Thr Leu Gln Glu Gln Leu Arg Ala Leu Thr Arg  
130 135 140

Ala Glu Asp Ser Ile Ala Ala Lys Ile Leu Ser Tyr Asn Arg Ala Asn  
145 150 155 160

Arg Val Val Ala Ile Leu Cys Asn His Gln Arg Ala Thr Pro Ser Thr  
165 170 175

Phe Glu Lys Ser Met Gln Asn Leu Gln Thr Lys Ile Gln Ala Lys Lys  
180 185 190

Glu Gln Val Ala Glu Ala Arg Ala Glu Leu Arg Arg Ala Arg Ala Glu  
195 200 205

His Lys Ala Gln Gly Asp Gly Lys Ser Arg Ser Val Leu Glu Lys Lys  
210 215 220

Arg Xaa Leu Leu Glu Lys Leu Gln Glu Gln Leu Ala Gln Leu Ser Val  
225 230 235 240

Gln Ala Thr Asp Lys Glu Glu Asn Lys Gln Val Ala Leu Gly Thr Ser  
245 250 255

Lys Leu Asn Tyr Leu Asp Pro Arg Ile Ser Ile Ala Trp Cys Lys Arg  
260 265 270

Phe Arg Val Pro Val Glu Lys Ile Tyr Ser Lys Thr Gln Arg Glu Arg  
275 280 285

Phe Ala Trp Ala Leu Ala Met Ala Gly Glu Asp Phe Glu Phe  
290 295 300

&lt;210&gt; 1236

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1236

Ala Val Leu Val Ser Leu Glu Tyr Leu Ser Asp Arg Ile Lys Leu Lys

1                    5                    10                    15  
Leu Ser Gly Lys Leu Pro Val Tyr Ile Leu His Leu Val Tyr Arg Leu  
                  20                    25                    30  
Phe Cys Leu Ala His Lys Ala Phe Tyr Tyr Leu Ser Leu Cys Gln His  
                  35                    40                    45  
Leu Arg Ile Lys Asn Phe Pro Asp Ile Gln Ile Ser Asp Phe Asn  
                  50                    55                    60

<210> 1237  
<211> 239  
<212> PRT  
<213> Homo sapiens

<400> 1237  
Val Tyr Leu Leu Gly Ser Trp Leu Arg Arg His Ser Ser Tyr Thr Glu  
1                    5                    10                    15  
Glu Met Gly Glu Glu Ala Asn Asp Asp Lys Lys Pro Thr Thr Lys Phe  
                  20                    25                    30  
Glu Leu Glu Arg Glu Thr Glu Leu Arg Phe Glu Val Glu Ala Ser Gln  
                  35                    40                    45  
Ser Val Gln Leu Glu Leu Leu Thr Gly Met Ala Glu Ile Phe Gly Thr  
                  50                    55                    60  
Glu Leu Thr Arg Asn Lys Lys Phe Thr Phe Asp Ala Gly Ala Lys Val  
65                    70                    75                    80  
Ala Val Phe Thr Trp His Gly Cys Ser Val Gln Leu Ser Gly Arg Thr  
                  85                    90                    95  
Glu Val Ala Tyr Val Ser Lys Asp Thr Pro Met Leu Leu Tyr Leu Asn  
                  100                    105                    110  
Thr His Thr Ala Leu Glu Gln Met Arg Arg Gln Ala Glu Lys Glu Glu  
                  115                    120                    125  
Glu Arg Gly Pro Arg Val Met Val Val Gly Pro Thr Asp Val Gly Lys  
130                    135                    140  
Ser Thr Val Cys Arg Leu Leu Leu Asn Tyr Ala Val Arg Leu Gly Arg  
145                    150                    155                    160  
Arg Pro Thr Tyr Val Glu Leu Asp Val Gly Gln Gly Ser Val Ser Ile  
                  165                    170                    175

Pro Gly Thr Met Gly Ala Leu Tyr Ile Glu Arg Pro Ala Asp Val Glu  
180 185 190

Glu Gly Phe Ser Ile Gln Ala Pro Leu Val Tyr His Phe Gly Ser Thr  
195 200 205

Thr Pro Gly Thr Asn Ile Lys Leu Tyr Asn Lys Ile Thr Ser Arg Leu  
210 215 220

Ala Asp Val Phe Asn Gln Arg Cys Glu Val Asn Arg Arg His Leu  
225 230 235

<210> 1238

<211> 315

<212> PRT

<213> Homo sapiens

<400> 1238

Leu Leu Thr Arg Asn Met Asp Arg Leu Leu Arg Leu Gly Gly Gly Met  
1 5 10 15

Pro Gly Leu Gly Gln Gly Pro Pro Thr Asp Ala Pro Ala Val Asp Thr  
20 25 30

Ala Glu Gln Val Tyr Ile Ser Ser Leu Ala Leu Leu Lys Met Leu Lys  
35 40 45

His Gly Arg Ala Gly Val Pro Met Glu Val Met Gly Leu Met Leu Gly  
50 55 60

Glu Phe Val Asp Asp Tyr Thr Val Arg Val Ile Asp Val Phe Ala Met  
65 70 75 80

Pro Gln Ser Gly Thr Gly Val Ser Val Glu Ala Val Asp Pro Val Phe  
85 90 95

Gln Ala Lys Met Leu Asp Met Leu Lys Gln Thr Gly Arg Pro Glu Met  
100 105 110

Val Val Gly Trp Tyr His Ser His Pro Gly Phe Gly Cys Trp Leu Ser  
115 120 125

Gly Val Asp Ile Asn Thr Gln Gln Ser Phe Glu Ala Leu Ser Glu Arg  
130 135 140

Ala Val Ala Val Val Val Asp Pro Ile Gln Ser Val Lys Gly Lys Val  
145 150 155 160

Val Ile Asp Ala Phe Arg Leu Ile Asn Ala Asn Met Met Val Leu Gly  
 165 170 175  
 His Glu Pro Arg Gln Thr Thr Ser Asn Leu Gly His Leu Asn Lys Pro  
 180 185 190  
 Ser Ile Gln Ala Leu Ile His Gly Leu Asn Arg His Tyr Tyr Ser Ile  
 195 200 205  
 Thr Ile Asn Tyr Arg Lys Asn Glu Leu Glu Gln Lys Met Leu Leu Asn  
 210 215 220  
 Leu His Lys Lys Ser Trp Met Glu Gly Leu Thr Leu Gln Asp Tyr Ser  
 225 230 235 240  
 Glu His Cys Lys His Asn Glu Ser Val Val Lys Glu Met Leu Glu Leu  
 245 250 255  
 Ala Lys Asn Tyr Asn Lys Ala Val Glu Glu Glu Asp Lys Met Thr Pro  
 260 265 270  
 Glu Gln Leu Ala Ile Lys Asn Val Gly Lys Gln Asp Pro Lys Arg His  
 275 280 285  
 Leu Glu Glu His Val Asp Val Leu Met Thr Ser Asn Ile Val Gln Cys  
 290 295 300  
 Leu Ala Ala Met Leu Asp Thr Val Val Phe Lys  
 305 310 315

&lt;210&gt; 1239

&lt;211&gt; 283

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (253)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (259)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1239

Leu Arg Gly Ser Asp Ala Gly Ser Gly Asp Glu Val Ala Ala Gly Gly  
 1 5 10 15

Ser Arg Ala Val Ala Ala Ala Ala Leu Pro Arg Ser Gly Arg Val Gly  
20 25 30

Ala Ser Gly Pro Ala Ser Ala Pro Leu His Pro Arg Leu Ala Glu Pro  
35 40 45

Gly Phe Ser Ala Ala Ala Gly Leu Val Arg Arg Ser Gln Val Arg Gly  
50 55 60

Val His Pro Leu Gly Arg Val Leu Gly Ala Arg Leu Gly Gln Arg Val  
65 70 75 80

Val Leu Val Ala Leu Ala Gly Arg Gly Ala Ala Ala Val Pro Ala Leu  
85 90 95

His Ala Arg Gln Leu Pro Ala Arg Leu Gln Leu Arg Arg Leu Arg Thr  
100 105 110

Ala Val His Cys Ala Leu Leu Pro Pro Gly Glu Trp Ala Asp Leu Phe  
115 120 125

Gln Ala Ala Gly Ala Lys Tyr Val Val Leu Thr Thr Lys His His Glu  
130 135 140

Gly Phe Thr Asn Trp Pro Ser Pro Val Ser Trp Asn Trp Asn Ser Lys  
145 150 155 160

Asp Val Gly Pro His Arg Asp Leu Val Gly Glu Leu Gly Thr Ala Leu  
165 170 175

Arg Lys Arg Asn Ile Arg Tyr Gly Leu Tyr His Ser Leu Leu Glu Trp  
180 185 190

Phe His Pro Leu Tyr Leu Leu Asp Lys Lys Asn Gly Phe Lys Thr Gln  
195 200 205

His Phe Val Ser Ala Lys Thr Met Pro Glu Leu Tyr Asp Leu Val Asn  
210 215 220

Ser Tyr Lys Pro Asp Leu Ile Trp Ser Asp Gly Glu Trp Glu Cys Pro  
225 230 235 240

Asp Thr Tyr Trp Asn Ser Thr Asn Phe Leu Ser Trp Xaa Tyr Asn Asp  
245 250 255

Ser Pro Xaa Lys Val Ser Val Gly Ser Leu Arg Ala Arg Thr Leu Phe  
260 265 270

Tyr Ser Thr Trp Glu Leu Ser Val Cys His Met  
275 280

<210> 1240  
<211> 180  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (175)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1240  
Thr Thr Ser Xaa Glu Arg Xaa Leu Thr Gly Pro Glu Pro Leu Arg Arg  
1 5 10 15  
Arg Arg Leu Cys Ser Arg Gln Leu Ala Pro Ala Ala Met Pro Thr Thr  
20 25 30  
Ile Glu Arg Glu Phe Glu Glu Leu Asp Thr Gln Arg Arg Trp Gln Pro  
35 40 45  
Leu Tyr Leu Glu Ile Arg Asn Glu Ser His Asp Tyr Pro His Arg Val  
50 55 60  
Ala Lys Phe Pro Glu Asn Arg Asn Arg Asn Arg Tyr Arg Asp Val Ser  
65 70 75 80  
Pro Tyr Asp His Ser Arg Val Lys Leu Gln Asn Ala Glu Asn Asp Tyr  
85 90 95  
Ile Asn Ala Ser Leu Val Asp Ile Glu Glu Ala Gln Arg Ser Tyr Ile  
100 105 110  
Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Cys His Phe Trp Leu Met  
115 120 125  
Val Trp Gln Gln Lys Thr Lys Ala Val Val Met Leu Asn Arg Ile Val  
130 135 140  
Glu Lys Glu Ser Ser Gly Glu Thr Glu Gln Tyr Leu Thr Phe Ile Ile

145                      150                      155                      160  
 Leu Pro Gly Gln Asn Leu Glu Ser Leu Glu Ser Thr Ser Phe Xaa Ser  
                          165                      170                      175  
 Gln Phe Leu Gly  
                          180

<210> 1241  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 1241  
 Ser Arg Asp Gly Val Ser Pro His Trp Pro Gly Trp Ser Gln Thr Pro  
   1                      5                      10                      15  
 Asp Leu Lys

<210> 1242  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1242  
 Ala Phe Asp Leu Cys Tyr Leu Tyr Ser Trp Asp Leu Ile Arg Lys Met  
   1                      5                      10                      15

Cys Phe Val Val Leu Asp Lys Leu Phe His Pro Leu Phe Pro Pro Gln  
                          20                      25                      30

Asn Thr His Thr Glu Gln Thr Pro Phe His Lys Ser Pro His Ile His  
                          35                      40                      45

Trp Gln Ser Pro Phe Ala Ser Trp Ser Pro Cys Val Pro Pro Lys Ser  
   50                      55                      60

Ile Met Phe Glu Ser Leu Trp Trp Met Leu Trp Gly Lys Val Met Ile  
   65                      70                      75                      80

Tyr Thr Glu Ala Thr Ala Lys Ser Val Val Gln Pro Leu Ser Pro Val  
                          85                      90                      95

Lys Tyr Cys Ile Thr Pro Phe Gly Thr Thr Glu Lys Thr Val Ala Phe  
                          100                      105                      110



Leu Gln Tyr Ser Ser Leu Leu His His Phe Cys Ile Asn Val Glu Thr  
115 120 125

Lys His Gln Asn Leu  
130

<210> 1243

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1243

Pro Ala Arg Cys Met Pro Gly Pro Trp Pro Pro Tyr Leu Ala Ala Ser  
1 5 10 15

Cys Asp Ser Glu Ile His Pro Ser Arg Trp Gln Leu Leu Gly Leu Asn  
20 25 30

Leu Leu Glu Lys Lys Val Pro Ser Gln Glu Asn Ser Phe Tyr Ser Gly  
35 40 45

Arg Asn Ala Ser Glu Thr Pro Gln Gly Ser Leu Asn Thr Gln Leu Gln  
50 55 60

Gly Arg Ala Cys Gly Gly  
65 70

<210> 1244

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1244

Val Tyr Thr Leu Pro Ser His Lys Pro Ile Phe Lys Arg Ser Asn Ala  
1 5 10 15

Met Thr Ala Ile Leu Gln Glu Lys Lys Lys Leu Tyr Ser Cys Gly Asp  
20 25 30

Val Pro His Thr Xaa His Gln Leu Gln Gly Val Cys Pro Leu Gln Thr  
35 40 45

Pro Glu Pro  
50

<210> 1245  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1245  
Asn Ala Val Phe Ser Ile Thr Asp Leu Ser Leu Pro Asn Tyr Leu Met  
1 5 10 15  
Ala Ser Ser Val Gly Leu Leu Pro Thr Gln Leu Leu Asn Ser Tyr Leu  
20 25 30  
Gly Thr Thr Leu Arg Thr Met Glu Asp Val Ile Ala Glu Gln Ser Xaa  
35 40 45  
Ser Gly Tyr Phe Val Phe Cys Leu Gln Ile Ile Ile Ser Ile Gly Leu  
50 55 60  
Met Phe Tyr Val Val His Arg Ala Gln Val Glu Leu Asn Ala Ala Ile  
65 70 75 80  
Val Ala Cys Glu Met Gly Thr Gly Asn Leu Leu Trp Leu Lys Gly Asn  
85 90 95  
Xaa Pro Asn Thr Ser Gly Leu Phe His Ser Thr Thr Arg Gly Pro  
100 105 110

<210> 1246  
<211> 223  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1246

Lys Gln Ala Gly Cys Ser Ala Ala Pro Gly Ala Val Pro Pro Pro Glu  
1 5 10 15

Ala Asp Ser Thr Ser Ala Gly Met Ser Arg Arg Pro Cys Ser Cys Ala  
20 25 30

Leu Arg Pro Pro Arg Cys Ser Cys Ser Ala Ser Pro Ser Ala Val Thr  
35 40 45

Ala Ala Gly Arg Pro Arg Pro Ser Asp Ser Cys Lys Glu Glu Ser Ser  
50 55 60

Thr Leu Ser Val Lys Met Lys Cys Asp Phe Asn Cys Asn His Val His  
65 70 75 80

Ser Gly Leu Lys Leu Val Lys Pro Asp Asp Ile Gly Arg Leu Val Ser  
85 90 95

Tyr Thr Pro Ala Tyr Leu Glu Gly Ser Cys Lys Asp Cys Ile Lys Asp  
100 105 110

Tyr Glu Arg Leu Ser Cys Ile Gly Ser Pro Ile Val Ser Pro Arg Ile  
115 120 125

Val Glu Leu Glu Thr Glu Ser Lys Arg Leu His Asn Lys Glu Asn Gln  
130 135 140

His Val Gln Gln Thr Leu Asn Ser Thr Asn Glu Ile Glu Ala Leu Glu  
145 150 155 160

Thr Ser Arg Leu Tyr Glu Asp Ser Ala Ile Pro Gln Phe Leu Tyr Lys  
165 170 175

Val Ala Ser Val Thr Met Lys Xaa Val Ala Phe Trp Arg Arg Asn Ser  
180 185 190

Val Thr Xaa Tyr Asn Xaa Gly Trp Leu Gln Ile Gln Gly Pro Asp Pro  
195 200 205

Ile Phe Pro Thr Lys Asn Phe Xaa Leu Ala Arg Ser Phe Asn Phe  
210 215 220

<210> 1247

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1247

Leu Glu Lys Lys Asp Ile Xaa Asn Met Leu Met Trp Arg Ser Pro Ser  
1 5 10 15

Tyr Pro Lys Gly Glu Lys Gln Gly Lys Asp Pro Leu His Ser Lys Phe  
20 25 30

Pro Leu Gly Ser Pro Arg Ala His Cys Pro Gln Met His Ile Ile Ser  
35 40 45

Ala Glu Ile Gln Lys Pro  
50

<210> 1248

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1248

Arg Phe Leu Ser Phe Val Phe Gly Leu Asn Phe Ser Pro Arg Ser Leu  
1 5 10 15

Phe Val Ser Ser Phe Cys Phe Ser Thr Val Leu Val Ile Thr Leu Cys  
20 25 30

Trp Arg Glu Pro Val Ser Leu Trp Pro Pro Leu Pro Lys Leu Lys Gln  
35 40 45

Gly Pro Ile Ile Met Ser Val Ser Arg Thr Val Pro Trp Ser Ser His  
50 55 60

Ile Pro Gly Pro Arg Leu Gly Pro Pro Ser Cys Val Leu  
65 70 75

<210> 1249

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1249

Asn Asn Ile Cys Ser Gln Met Val Phe Leu Ala Val Ser Pro Val Val  
1 5 10 15

Ala Met Phe Arg Val Val Val Leu Ile Tyr Leu Gly Val His Lys Thr  
20 25 30

Tyr Leu Ala Gly Leu Phe Lys Lys Phe Arg Phe Leu Ala Leu Tyr Pro  
35 40 45

Gly Ile Ala Ser Gly Gly Met Gly Cys Gly Pro Gly Val Ile Thr Phe  
50 55 60

Ile Asn Ser Gly Ser Glu Thr Thr Glu Arg Asp Cys Phe Ile Glu Trp  
65 70 75 80

Glu Val Pro Arg Arg Lys Tyr Asn Ser Val Leu Ser Gly Gly Lys Trp  
85 90 95

Thr Leu Cys Thr  
100

<210> 1250

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1250

Ser Asn Leu Met Leu Thr Asn Leu Leu Cys Leu Leu Cys Cys Phe Leu  
1 5 10 15

Val Pro Ala Ser Ala Ala Leu Gln Met Gln Thr Ile Leu Ser Tyr Leu  
20 25 30

Ala Gly Leu Leu Phe Tyr Phe Val Gly Trp Met Leu Pro Ser Ser

35

40

45

&lt;210&gt; 1251

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1251

Lys	Pro	Gly	Ser	Thr	Gly	Xaa	Val	Arg	Glu	Gly	Gln	Pro	Phe	Glu	Tyr
1				5					10					15	

Phe	Val	Tyr	Gly	Ala	Ala	Cys	Ser	Glu	Val	Glu	Ile	Asp	Cys	Leu	Thr
			20					25					30		

Gly	Asp	His	Lys	Asn	Ile	Arg	Thr	Asp	Ile	Val	Met	Asp	Val	Gly	Cys
	35						40					45			

Ser	Ile	Asn	Pro	Ala	Ile	Asp	Ile	Gly	Gln	Ile	Glu	Gly	Ala	Phe	Ile
	50					55					60				

Gln	Gly	Met	Xaa	Leu	Tyr	Thr	Ile	Glu	Glu	Leu	Asn	Tyr	Ser	Pro	Gln
65					70					75					80

Gly	Ile	Leu	His	Thr	Arg	Gly	Pro	Asp	Gln	Tyr	Lys	Ile	Pro	Ala	Ile
				85					90					95	

Cys	Asp	Met	Pro	Thr	Glu	Leu	His	Ile	Ala	Leu	Leu	Pro	Pro	Ser	Gln
			100						105					110	

Asn	Ser	Asn	Thr	Leu	Tyr	Ser	Ser	Lys	Gly	Leu	Gly	Glu	Ser	Gly	Val
		115						120				125			

Phe	Leu	Gly	Cys	Ser	Val	Phe	Phe	Ala	Ile	His	Asp	Ala	Val	Ser	Ala
	130							135				140			

Ala	Arg	Gln	Glu	Arg	Gly	Leu	His	Gly	Pro	Leu	Thr	Leu	Asn	Ser	Pro
145					150					155					160

Leu	Thr	Pro	Glu	Lys	Ile	Arg	Met	Ala	Cys	Glu	Asp	Lys	Phe	Thr	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

165 170 175  
Met Ile Pro Arg Asp Glu Pro Gly Ser Tyr Val Pro Trp Asn Val Pro  
180 185 190

Ile

<210> 1252  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 1252  
Gly Ser Ser Lys Gly Ile Phe Leu Leu Phe Ser Leu Phe Leu Gly Cys  
1 5 10 15  
Ser Lys Phe Ser Arg Ser Ser Ser Arg Ile Arg Lys Arg Ser Ile Val  
20 25 30  
Arg Asn Arg Phe Trp Val Leu Leu Lys Phe Ala Cys Gln His Cys Ile  
35 40 45

Thr Phe Pro  
50

<210> 1253  
<211> 696  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (541)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1253  
His Glu Arg Glu Xaa His Gly Leu Gly Ala Asp Cys Arg Ala Gly Arg  
1 5 10 15  
Leu Val Val Met Pro Gly Phe Leu Val Arg Ile Leu Leu Leu Leu Leu  
20 25 30

Val Leu Leu Leu Leu Gly Pro Thr Arg Gly Leu Arg Asn Ala Thr Gln  
 35 40 45  
 Arg Met Phe Glu Ile Asp Tyr Ser Arg Asp Ser Phe Leu Lys Asp Gly  
 50 55 60  
 Gln Pro Phe Arg Tyr Ile Ser Gly Ser Ile His Tyr Ser Arg Val Pro  
 65 70 75 80  
 Arg Phe Tyr Trp Lys Asp Arg Leu Leu Lys Met Lys Met Ala Gly Leu  
 85 90 95  
 Asn Ala Ile Gln Thr Tyr Val Pro Trp Asn Phe His Glu Pro Trp Pro  
 100 105 110  
 Gly Gln Tyr Gln Phe Ser Glu Asp His Asp Val Glu Tyr Phe Leu Arg  
 115 120 125  
 Leu Ala His Glu Leu Gly Leu Leu Val Ile Leu Arg Pro Gly Pro Tyr  
 130 135 140  
 Ile Cys Ala Glu Trp Glu Met Gly Gly Leu Pro Ala Trp Leu Leu Glu  
 145 150 155 160  
 Lys Glu Ser Ile Leu Leu Arg Ser Ser Asp Pro Asp Tyr Leu Ala Ala  
 165 170 175  
 Val Asp Lys Trp Leu Gly Val Leu Leu Pro Lys Met Lys Pro Leu Leu  
 180 185 190  
 Tyr Gln Asn Gly Gly Pro Val Ile Thr Val Gln Val Glu Asn Glu Tyr  
 195 200 205  
 Gly Ser Tyr Phe Ala Cys Asp Phe Asp Tyr Leu Arg Phe Leu Gln Lys  
 210 215 220  
 Arg Phe Arg His His Leu Gly Asp Asp Val Val Leu Phe Thr Thr Asp  
 225 230 235 240  
 Gly Ala His Lys Thr Phe Leu Lys Cys Gly Ala Leu Gln Gly Leu Tyr  
 245 250 255  
 Thr Thr Val Asp Phe Gly Thr Gly Ser Asn Ile Thr Asp Ala Phe Leu  
 260 265 270  
 Ser Gln Arg Lys Cys Glu Pro Lys Gly Pro Leu Ile Asn Ser Glu Phe  
 275 280 285  
 Tyr Thr Gly Trp Leu Asp His Trp Gly Gln Pro His Ser Thr Ile Lys  
 290 295 300



Thr Glu Ala Val Ala Ser Ser Leu Tyr Asp Ile Leu Ala Arg Gly Ala  
305 310 315 320

Ser Val Asn Leu Tyr Met Phe Ile Gly Gly Thr Asn Phe Ala Tyr Trp  
325 330 335

Asn Gly Ala Asn Ser Pro Tyr Ala Ala Gln Pro Thr Ser Tyr Asp Tyr  
340 345 350

Asp Ala Pro Leu Ser Glu Ala Gly Asp Leu Thr Glu Lys Tyr Phe Ala  
355 360 365

Leu Arg Asn Ile Ile Gln Lys Phe Glu Lys Val Pro Glu Gly Pro Ile  
370 375 380

Pro Pro Ser Thr Pro Lys Phe Ala Tyr Gly Lys Val Thr Leu Glu Lys  
385 390 395 400

Leu Lys Thr Val Gly Ala Ala Leu Asp Ile Leu Cys Pro Ser Gly Pro  
405 410 415

Ile Lys Ser Leu Tyr Pro Leu Thr Phe Ile Gln Val Lys Gln His Tyr  
420 425 430

Gly Phe Val Leu Tyr Arg Thr Thr Leu Pro Gln Asp Cys Ser Asn Pro  
435 440 445

Ala Pro Leu Ser Ser Pro Leu Asn Gly Val His Asp Arg Ala Tyr Val  
450 455 460

Ala Val Asp Gly Ile Pro Gln Gly Val Leu Glu Arg Asn Asn Val Ile  
465 470 475 480

Thr Leu Asn Ile Thr Gly Lys Ala Gly Ala Thr Leu Asp Leu Leu Val  
485 490 495

Glu Asn Met Gly Arg Val Asn Tyr Gly Ala Tyr Ile Asn Asp Phe Lys  
500 505 510

Gly Leu Val Ser Asn Leu Thr Leu Ser Ser Asn Ile Leu Thr Asp Trp  
515 520 525

Thr Ile Phe Pro Leu Asp Thr Glu Asp Ala Val Arg Xaa His Leu Gly  
530 535 540

Gly Trp Gly His Arg Asp Ser Gly His His Asp Glu Ala Trp Ala His  
545 550 555 560

Asn Ser Ser Asn Tyr Thr Leu Pro Ala Phe Tyr Met Gly Asn Phe Ser  
565 570 575

Ile Pro Ser Gly Ile Pro Asp Leu Pro Gln Asp Thr Phe Ile Gln Phe  
                   580                                  585                                  590  
 Pro Gly Trp Thr Lys Gly Gln Val Trp Ile Asn Gly Phe Asn Leu Gly  
                   595                                  600                                  605  
 Arg Tyr Trp Pro Ala Arg Gly Pro Gln Leu Thr Leu Phe Val Pro Gln  
                   610                                  615                                  620  
 His Ile Leu Met Thr Ser Ala Pro Asn Thr Ile Thr Val Leu Glu Leu  
                   625                                  630                                  635                                  640  
 Glu Trp Ala Pro Cys Ser Ser Asp Asp Pro Glu Leu Cys Ala Val Thr  
                   645                                  650                                  655  
 Phe Val Asp Arg Pro Val Ile Gly Ser Ser Val Thr Tyr Asp His Pro  
                   660                                  665                                  670  
 Ser Lys Pro Val Glu Lys Arg Leu Met Pro Pro Pro Pro Gln Lys Asn  
                   675                                  680                                  685  
 Lys Asp Ser Trp Leu Asp His Val  
                   690                                  695

<210> 1254

<211> 400

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (241)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1254

Thr Ser Ser Pro Ser Leu Ala Ser Asp Leu Leu Leu Asn Met Gly Ala  
   1                                  5                                  10                                  15  
 Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His Gly Ala Gly  
                   20                                  25                                  30  
 Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp Arg Val Glu  
                   35                                  40                                  45

Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His Gly Leu Glu  
50 55 60

Asp Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly Ser Arg Val  
65 70 75 80

Ala Asn Tyr Cys Ser Thr His Leu Leu Glu His Ile Thr Thr Asn Glu  
85 90 95

Asp Phe Arg Ala Ala Gly Lys Ser Gly Ser Ala Leu Glu Leu Ser Val  
100 105 110

Glu Asn Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Lys Ile Asp Glu  
115 120 125

Tyr Met Arg Asn Phe Ser Asp Leu Arg Asn Gly Met Asp Arg Ser Gly  
130 135 140

Ser Thr Ala Val Gly Val Met Ile Ser Pro Lys His Ile Tyr Phe Ile  
145 150 155 160

Asn Cys Gly Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly Gln Val Cys  
165 170 175

Phe Ser Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu Lys Glu Arg  
180 185 190

Ile Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser  
195 200 205

Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys Cys Val Asp  
210 215 220

Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu Val Tyr  
225 230 235 240

Xaa Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu Ala Cys Asp  
245 250 255

Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys Glu Tyr Val Lys  
260 265 270

Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys Asn Trp Val  
275 280 285

Val Asp Thr Cys Leu His Lys Gly Ser Arg Asp Asn Met Ser Ile Val  
290 295 300

Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys  
305 310 315 320

Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile  
                   325                  330                  335  
 Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met  
                   340                  345                  350  
 Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro Gly Gly Gly  
                   355                  360                  365  
 Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn  
                   370                  375                  380  
 Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu Asp Pro Trp  
                   385                  390                  395                  400

<210> 1255  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<400> 1255  
 Val Ala Arg Ser Ala Pro Pro Asp Gly Ala Val Cys Ala Gly Pro Gly  
   1                  5                  10                  15  
 Ser Arg Arg Thr Glu Met Ala Glu Gln Ser Asp Glu Ala Val Lys Tyr  
                   20                  25                  30  
 Tyr Thr Leu Glu Glu Ile Gln Lys His Asn His Ser Lys Ser Thr Trp  
                   35                  40                  45  
 Leu Ile Leu His His Lys Val Tyr Asp Leu Thr Lys Phe Leu Glu Glu  
                   50                  55                  60  
 His Pro Gly Gly Glu Glu Val Leu Arg Glu Gln Ala Gly Gly Asp Ala  
                   65                  70                  75                  80  
 Thr Glu Asn Phe Glu Asp Val Gly His Ser Thr Asp Ala Arg Glu Met  
                   85                  90                  95  
 Ser Lys Thr Phe Ile Ile Gly Glu Leu His Pro Asp Asp Arg Pro Lys  
                   100                  105                  110  
 Leu Asn Lys Pro Pro Glu Thr Leu Ile Thr Thr Ile Asp Ser Ser Ser  
                   115                  120                  125

Ser Trp Trp Thr Asn Trp Val Ile Pro Ala Ile Ser Ala Val Ala Val  
 130 135 140

Ala Leu Met Tyr Arg Leu Tyr Met Ala Glu Asp  
 145 150 155

<210> 1256  
 <211> 378  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (184)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1256  
 Gln Ala Phe Ala Lys Ser Tyr Leu Gly Asp Thr Ile Glu Gly Thr Pro  
 1 5 10 15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Arg Arg  
 20 25 30

Lys Pro Thr Ala Ala Trp Ser Ala Lys Lys Ser Phe Gln Val Ser Arg  
 35 40 45

Thr Gly Leu Phe Leu Ser Lys Ser Gly Ser Thr Leu Thr Met Trp Leu  
 50 55 60

Tyr Leu Ala Ala Phe Val Gly Leu Tyr Tyr Leu Leu His Trp Tyr Arg  
 65 70 75 80

Glu Arg Gln Val Val Ser His Leu Gln Asp Lys Tyr Val Phe Ile Thr  
 85 90 95

Gly Cys Asp Ser Gly Phe Gly Asn Leu Leu Ala Arg Gln Leu Asp Ala  
 100 105 110

Arg Gly Leu Xaa Val Leu Ala Ala Cys Leu Thr Glu Lys Gly Ala Glu  
 115 120 125

Gln Leu Arg Gly Gln Thr Ser Asp Arg Leu Glu Thr Val Thr Leu Asp  
 130 135 140

Val Thr Lys Met Glu Ser Ile Ala Ala Ala Thr Gln Trp Val Lys Glu  
 145 150 155 160  
 His Val Gly Asp Arg Gly Leu Trp Gly Leu Val Asn Asn Ala Gly Ile  
 165 170 175  
 Leu Thr Pro Ile Thr Leu Cys Xaa Trp Leu Asn Thr Glu Asp Ser Met  
 180 185 190  
 Asn Met Leu Lys Val Asn Leu Ile Gly Val Ile Gln Val Thr Leu Ser  
 195 200 205  
 Met Leu Pro Leu Val Arg Arg Ala Arg Gly Arg Ile Val Asn Val Ser  
 210 215 220  
 Ser Ile Leu Gly Arg Val Ala Phe Phe Val Gly Gly Tyr Cys Val Ser  
 225 230 235 240  
 Lys Tyr Gly Val Glu Ala Phe Ser Asp Ile Leu Arg Arg Glu Ile Gln  
 245 250 255  
 His Phe Gly Val Lys Ile Ser Ile Val Glu Pro Gly Tyr Phe Arg Thr  
 260 265 270  
 Gly Met Thr Asn Met Thr Gln Ser Leu Glu Arg Met Lys Gln Ser Trp  
 275 280 285  
 Lys Glu Ala Pro Lys His Ile Lys Glu Thr Tyr Gly Gln Gln Tyr Phe  
 290 295 300  
 Asp Ala Leu Tyr Asn Ile Met Lys Glu Gly Leu Leu Asn Cys Ser Thr  
 305 310 315 320  
 Asn Leu Asn Leu Val Thr Asp Cys Met Glu His Ala Leu Thr Ser Val  
 325 330 335  
 His Pro Arg Thr Arg Tyr Ser Ala Gly Trp Asp Ala Lys Phe Phe Phe  
 340 345 350  
 Ile Pro Leu Ser Tyr Leu Pro Thr Ser Leu Ala Asp Tyr Ile Leu Thr  
 355 360 365  
 Arg Ser Trp Pro Lys Pro Ala Gln Ala Val  
 370 375

&lt;210&gt; 1257

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1257

Lys Pro Gln Pro Leu Ala Tyr Ser Ser Phe Asn Thr Arg Asp Leu Trp  
 1 5 10 15

Leu Ile Trp Gly Arg Lys Thr Leu Lys Val Ile Ser Leu Gly Gln Arg  
 20 25 30

Pro Tyr Cys Thr Arg Gly Lys Lys Tyr Ile Leu His Leu Leu Leu Leu  
 35 40 45

Gln Leu Cys Leu Lys Phe Ile Cys Leu Val Ile Leu Ser Thr Xaa Thr  
 50 55 60

Asn Phe Leu Val Tyr Phe Lys His Leu Val Gly  
 65 70 75

&lt;210&gt; 1258

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1258

Pro Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Arg Lys Leu Pro  
 1 5 10 15

Glu Glu His Ala Arg Phe Tyr Ser Ala Glu Ile Ser Leu Ala Leu Asn  
 20 25 30

Tyr Leu His Glu Arg Gly Ile Ile Tyr Arg Asp Leu Lys Leu Asp Asn  
 35 40 45

Val Leu Leu Asp Ser Glu Gly His Ile Lys Leu Thr Asp Tyr Gly Met  
 50 55 60

Cys Lys Glu Gly Leu Arg Pro Gly Asp Thr Thr Ser Thr Phe Cys Gly  
 65 70 75 80

Thr Pro Asn Tyr Ile Ala Pro Glu Ile Leu Arg Gly Glu Asp Tyr Gly  
 85 90 95

Phe Ser Val Asp Trp Trp Ala Leu Gly Val Leu Met Phe Glu Met Met  
 100 105 110

Ala	Gly	Arg	Ser	Pro	Phe	Asp	Ile	Val	Gly	Ser	Ser	Asp	Asn	Pro	Asp		
115						120					125						
Gln	Asn	Thr	Glu	Asp	Tyr	Leu	Phe	Gln	Val	Ile	Leu	Glu	Lys	Gln	Ile		
130						135					140						
Arg	Ile	Pro	Arg	Ser	Leu	Ser	Val	Lys	Ala	Ala	Ser	Val	Leu	Lys	Ser		
145						150					155					160	
Phe	Leu	Asn	Lys	Asp	Pro	Lys	Glu	Arg	Leu	Gly	Cys	His	Pro	Gln	Thr		
165						170					175						
Gly	Phe	Ala	Asp	Ile	Gln	Gly	His	Pro	Phe	Phe	Arg	Asn	Val	Asp	Trp		
180						185					190						
Asp	Met	Met	Glu	Gln	Lys	Gln	Val	Val	Pro	Pro	Phe	Lys	Pro	Asn	Ile		
195						200					205						
Ser	Gly	Glu	Phe	Gly	Leu	Asp	Asn	Phe	Asp	Ser	Gln	Phe	Thr	Asn	Glu		
210						215					220						
Pro	Val	Gln	Leu	Thr	Pro	Asp	Asp	Asp	Asp	Ile	Val	Arg	Lys	Ile	Asp		
225						230					235					240	
Gln	Ser	Glu	Phe	Glu	Gly	Phe	Glu	Tyr	Ile	Asn	Pro	Leu	Leu	Met	Ser		
245						250					255						
Ala	Glu	Glu	Cys	Val													
260																	

**<210> 1259**

<211> 115

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

**<222> (114)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 1259**

Phe Gly Xaa Gly Ala Leu Leu Lys Leu Ile Phe Pro Asp Gly Ala Phe  
1 5 10 15



Glu Ser Glu Asn Arg Ala Leu Ile Asn Val Gln Met Leu Asn Asn Ser  
20 25 30

Gly Phe Ala Arg Gly Ile Ile Glu Glu Phe Gln Asn Asn Asn Asp Leu  
35 40 45

Glu Leu Gln Gln Lys Cys Ile Asn Val Leu Ser Thr Tyr Ala Met Ile  
50 55 60

Gln Gly Gln Ile Asp Ala Asn Lys Glu Ile Gly Gln Phe Phe Ile Gln  
65 70 75 80

Thr Leu Thr Gln Leu Asn Val Arg Pro Glu Ile Leu Ile Glu Met Thr  
85 90 95

Asn Ser Leu Phe Gln Phe Thr Gly Met Pro Leu Thr Ala Ile Met Glu  
100 105 110

Pro Xaa Leu  
115

<210> 1260

<211> 296

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (270)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1260

Arg	Pro	Thr	Arg	Pro	Arg	His	Ala	Trp	Ala	Glu	Leu	Arg	Val	Val	Ala
1				5				10					15		
Met	Ala	Ala	Ser	Gly	Ala	Val	Glu	Pro	Gly	Pro	Pro	Gly	Ala	Ala	Val
			20					25					30		
Ala	Pro	Ser	Pro	Ala	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Asp	His	Leu	Phe
		35					40					45			
Arg	Pro	Ile	Ser	Ala	Glu	Asp	Glu	Glu	Gln	Xaa	Pro	Thr	Glu	Ile	Glu
	50					55					60				
Ser	Leu	Cys	Met	Asn	Cys	Tyr	Cys	Asn	Gly	Met	Thr	Arg	Leu	Leu	Leu
65				70						75				80	
Thr	Lys	Ile	Pro	Phe	Phe	Arg	Glu	Ile	Ile	Val	Ser	Ser	Phe	Ser	Cys
				85					90					95	
Glu	His	Cys	Gly	Trp	Asn	Asn	Thr	Glu	Ile	Gln	Ser	Ala	Gly	Arg	Ile
			100					105					110		
Gln	Asp	Gln	Gly	Val	Arg	Tyr	Thr	Leu	Ser	Val	Xaa	Ala	Leu	Glu	Asp
		115					120					125			
Met	Asn	Arg	Glu	Val	Val	Lys	Thr	Asp	Ser	Ala	Ala	Thr	Arg	Ile	Pro
	130					135						140			
Glu	Leu	Asp	Phe	Glu	Ile	Pro	Ala	Phe	Ser	Gln	Lys	Gly	Ala	Leu	Thr
145					150					155				160	
Thr	Val	Glu	Gly	Leu	Ile	Thr	Arg	Ala	Ile	Ser	Gly	Leu	Glu	Gln	Asp
			165						170					175	
Gln	Pro	Ala	Arg	Arg	Ala	Asn	Lys	Asp	Ala	Thr	Ala	Glu	Arg	Ile	Asp
		180						185					190		
Glu	Phe	Ile	Val	Lys	Leu	Lys	Glu	Leu	Lys	Gln	Val	Ala	Ser	Pro	Phe
	195					200						205			
Thr	Leu	Ile	Ile	Asp	Asp	Pro	Ser	Gly	Asn	Ser	Phe	Val	Glu	Asn	Pro
	210					215					220				
His	Ala	Pro	Gln	Lys	Asp	Asp	Ala	Leu	Val	Ile	Thr	His	Tyr	Asn	Arg
225				230						235				240	
Thr	Arg	Gln	Gln	Glu	Glu	Xaa	Leu	Gly	Leu	Gln	Glu	Glu	Ala	Pro	Ala
			245					250						255	

Glu Lys Pro Glu Glu Glu Asp Leu Arg Asn Glu Val Leu Xaa Phe Ser  
260 265 270

Thr Asn Cys Pro Glu Cys Asn Val Pro Xaa Gln Thr Asn Met Lys Leu  
275 280 285

Met Val Val Leu Phe Ala Trp Lys  
290 295

<210> 1261  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 1261  
Gly Gly Arg Gly Gly Arg Ile Thr Gly Ala Arg Glu Phe Lys Thr Ser  
1 5 10 15

Leu Gly Asn Ile Val Lys Pro Ser Pro Gln Ile Ile Phe Lys Lys Leu  
20 25 30

Ala Arg His Gly Gly Ala Ala Cys Ser Pro Ser Tyr Ser Gly Gly Leu  
35 40 45

Gly Gly Arg Ile Ala  
50

<210> 1262  
<211> 200  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1262

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Asp Ser His Xaa Thr Xaa Xaa Pro Val Asp Pro Arg Val Arg Glu Ala
 1           5           10           15
Gly Ile Pro Glu Phe Tyr Asp Tyr Asp Val Ala Leu Ile Lys Leu Lys
          20           25           30
Asn Lys Leu Lys Tyr Gly Gln Thr Ile Arg Pro Ile Cys Leu Pro Cys
          35           40           45
Thr Glu Gly Thr Thr Arg Ala Leu Arg Leu Pro Pro Thr Thr Thr Cys
          50           55           60
Gln Gln Gln Lys Glu Glu Leu Leu Pro Ala Gln Asp Ile Lys Ala Leu
 65           70           75           80
Phe Val Ser Glu Glu Glu Lys Lys Leu Thr Arg Lys Glu Val Tyr Ile
          85           90           95
Lys Asn Gly Asp Lys Lys Gly Ser Cys Glu Arg Asp Ala Gln Tyr Ala
          100          105          110
Pro Gly Tyr Asp Lys Val Lys Asp Ile Ser Glu Val Val Thr Pro Arg
          115          120          125
Phe Leu Cys Thr Gly Gly Val Ser Pro Tyr Ala Asp Pro Asn Thr Cys
          130          135          140
Arg Gly Asp Ser Gly Gly Pro Leu Ile Val His Lys Arg Ser Arg Phe
          145          150          155          160
Ile Gln Val Gly Val Ile Ser Trp Gly Val Val Asp Val Cys Lys Asn
          165          170          175
Gln Lys Arg Gln Lys Gln Val Pro Val Thr Pro Glu Thr Phe Thr Ser
          180          185          190
Thr Ser Phe Lys Cys Cys Pro Gly
          195          200

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&lt;210&gt; 1263

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1263

Cys	Ala	Arg	Pro	His	Cys	His	Gly	Pro	Gln	Ile	Tyr	Ser	Ser	Lys	Gln
1				5					10					15	

Ser	Ser	His	Gly	Thr	Phe	Pro	Gln	Gly	Ala	Val	Ser	Pro	Val	Glu	Glu
		20					25					30			

Ser	Asp	Met	Thr	His	His	Thr	Asp	Arg	Lys	Ile	Xaa	Thr	Asn	Tyr	Glu
	35						40					45			

Lys	Asn	Ala	Glu	Gly	Arg	Lys	Asn	Ile	Gly	Gly	Pro	Ala	Ala	Glu	Ser
50						55					60				

Arg	Leu	Thr	Cys	Arg	Asp	Leu	Cys	Trp	Pro	Gly	Pro	Val	Leu	Gly	Ser
65					70					75					80

Xaa	Xaa	His	Gly	Ile	Lys	Ser	Asn	Lys	Xaa	Thr	Val	Cys	Xaa	His	Leu
			85						90					95	

Thr	Val	Trp	Glu	Lys	Glu	Gln	Ala	Pro	Phe	Thr	Gly	Phe	Tyr
			100					105					110

&lt;210&gt; 1264

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1264

Phe Trp Pro Cys Arg Ala Phe Gly Ile Pro Ile Arg Val Tyr Thr His  
 1 5 10 15  
 Glu Val Val Thr Leu Trp Tyr Arg Ser Pro Glu Val Leu Leu Gly Ser  
 20 25 30  
 Ala Arg Tyr Ser Thr Pro Val Asp Ile Trp Ser Ile Gly Thr Ile Phe  
 35 40 45  
 Ala Glu Leu Ala Thr Lys Lys Pro Leu Phe His Gly Asp Ser Glu Ile  
 50 55 60  
 Asp Gln Leu Phe Arg Ile Phe Arg Ala Leu Gly Thr Pro Asn Asn Glu  
 65 70 75 80  
 Val Trp Pro Glu Val Glu Ser Leu Gln Asp Tyr Lys Asn Thr Phe Pro  
 85 90 95  
 Lys Trp Lys Pro Gly Ser Leu Ala Ser His Val Lys Asn Leu Asp Glu  
 100 105 110  
 Asn Gly Leu Asp Leu Leu Ser Lys Met Leu Ile Tyr Asp Pro Ala Lys  
 115 120 125  
 Arg Ile Ser Gly Lys Met Ala Leu Asn His Pro Tyr Phe Asn Asp Leu  
 130 135 140  
 Asp Asn Gln Ile Lys Lys Met  
 145 150

&lt;210&gt; 1265

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1265

Pro Glu Trp Trp Pro Asp Ser Arg Ser Pro Ser Ser Pro Arg Thr Pro  
 1 5 10 15  
 Arg Ser Ser Ser Ser Xaa Pro Tyr Ser Pro Thr His Phe Pro Pro Pro  
 20 25 30  
 Leu Leu Gln Ala Gly Ser Val Phe Leu Leu Val Pro Glu Ala Leu Cys  
 35 40 45

Ser Ser Pro Pro Ser Glu Pro Pro Tyr Ala Gly Ser Cys Lys Ala Trp  
 50 55 60

Leu Ser Ala Asp Gly Ser Ser Gln Asp  
 65 70

<210> 1266

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1266

Trp Gln Ser Ile Leu Pro Phe Ile Gln His Lys Arg Ser Trp Arg Gln  
 1 5 10 15

Ser Arg Thr Trp Cys Ser His Thr Glu Arg Ala Leu Lys Ala Val Ser  
 20 25 30

Asp Trp Ile Asp Glu Gln Glu Lys Gly Ser Ser Glu Gln Ala Glu Ser  
 35 40 45

Asp Asn Met Asp Val Pro Pro Glu Asp Asp Ser Lys Glu Gly Ala Gly  
 50 55 60

Glu Gln Lys Thr Glu His Met Thr Arg Thr Leu Arg Gly Val Met Arg  
 65 70 75 80

Val Gly Leu Val Ala Lys Gly Leu Leu Leu Lys Gly Asp Leu Asp Leu  
 85 90 95

Glu Leu Val Leu Leu Cys Lys Glu Lys Pro Thr Thr Ala Leu Leu Asp  
 100 105 110

Lys Val Ala Asp Asn Leu Ala Ile Gln Leu Ala Ala Val Thr Glu Asp  
 115 120 125

Lys Tyr Glu Ile Leu Gln Ser Val Asp Asp Ala Ala Ile Val Ile Lys  
 130 135 140

Asn Thr Lys Glu Pro Pro Leu Ser Leu Thr Ile His Leu Thr Ser Pro  
 145 150 155 160

Val Val Arg Glu Glu Met Glu Lys Val Leu Ala Gly Glu Thr Leu Ser

165                      170                      175  
 Val Asn Asp Pro Pro Asp Val Leu Asp Arg Gln Lys Cys Leu Ala Ala  
                          180                      185                      190  
 Leu Ala Ser Leu Arg His Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly  
                          195                      200                      205  
 Leu Lys Ser Cys Val Ile Val Ile Arg Val Leu Arg Asp Leu Cys Thr  
                          210                      215                      220  
 Arg Val Pro Thr Trp Gly Pro Leu Arg Gly Trp Pro Leu Glu Leu Leu  
                          225                      230                      235                      240  
 Cys Glu Lys Ser Ile Gly Thr Ala Asn Arg Pro Met Gly Ala Gly Glu  
                          245                      250                      255  
 Ala Leu Arg Arg Val Leu Glu Cys Leu Ala Ser Gly Ile Val Met Pro  
                          260                      265                      270  
 Asp Gly Ser Gly Ile Tyr Asp Pro Cys Glu Lys Glu Ala Thr Asp Ala  
                          275                      280                      285  
 Ile Gly His Leu Asp Arg Gln Gln Arg Glu Asp Ile Thr Gln Ser Ala  
                          290                      295                      300  
 Xaa Pro His Cys Gly Ser Leu Pro Ser Ala Ser Ser Ile Lys Ser  
                          305                      310                      315

<210> 1267

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1267

Phe Gly Arg Val Arg Pro Gln Arg Gln Ala Val Thr Leu Leu Leu Leu  
                          1                      5                      10                      15  
 Pro Leu Ala Met Ser Thr Ser Thr Ser Cys Pro Ile Pro Gly Gly Arg  
                          20                      25                      30  
 Asp Gln Leu Pro Asp Cys Tyr Ser Thr Thr Pro Gly Gly Thr Leu Tyr  
                          35                      40                      45  
 Ala Thr Thr Pro Gly Gly Thr Arg Ile Ile Tyr Asp Arg Lys Phe Leu  
                          50                      55                      60  
 Leu Glu Cys Lys Asn Ser Pro Ile Ala Arg Thr Pro Pro Cys Cys Leu  
                          65                      70                      75                      80



Pro Gln Ile Pro Gly Val Thr Thr Pro Pro Thr Ala Pro Leu Ser Lys  
85 90 95  
Leu Glu Glu Leu Lys Glu Gln Glu Thr Glu Glu Glu Ile Pro Asp Asp  
100 105 110  
Ala Gln Phe Glu Met Asp Ile  
115

<210> 1268

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (308)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (314)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (317)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (323)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (327)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (328)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (329)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1268

Arg Cys Xaa Gly Ser Ala Arg Ile Glu Val Cys Ser Ala Phe Gly Ser  
1 5 10 15

Met Ser Ala Ala Val Thr Ala Gly Lys Leu Ala Arg Ala Pro Ala Asp  
20 25 30

Pro Gly Lys Ala Gly Val Pro Gly Val Ala Ala Pro Gly Ala Pro Ala  
35 40 45

Ala Ala Pro Pro Ala Lys Glu Ile Pro Glu Xaa Leu Val Asp Pro Arg  
50 55 60

Ser Arg Arg Arg Tyr Val Arg Gly Arg Phe Leu Gly Lys Gly Gly Phe  
65 70 75 80

Ala Lys Cys Phe Glu Ile Ser Asp Ala Asp Thr Lys Glu Val Phe Ala  
85 90 95

Gly Lys Ile Val Pro Lys Ser Leu Leu Leu Lys Pro His Gln Arg Glu  
100 105 110

Lys Met Ser Met Glu Ile Ser Ile His Arg Ser Leu Ala His Gln His  
115 120 125

Val Val Gly Phe His Gly Phe Phe Glu Asp Asn Asp Phe Val Phe Val  
130 135 140

Val Leu Glu Leu Cys Arg Arg Arg Ser Leu Leu Glu Leu His Lys Arg  
145 150 155 160

Arg Lys Ala Leu Thr Glu Pro Glu Ala Arg Tyr Tyr Leu Arg Gln Ile  
165 170 175

Val Leu Gly Cys Gln Tyr Leu His Arg Asn Arg Val Ile His Arg Asp

180	185	190
Leu Lys Leu Gly Asn Leu Phe Leu Asn Glu Asp Leu Glu Val Lys Ile		
195	200	205
Gly Asp Phe Gly Leu Ala Thr Lys Val Glu Tyr Asp Gly Glu Arg Lys		
210	215	220
Lys Thr Leu Cys Gly Thr Pro Asn Tyr Ile Ala Pro Glu Val Leu Ser		
225	230	235 240
Lys Lys Gly His Ser Phe Glu Val Asp Val Trp Ser Ile Gly Cys Ile		
245	250	255
Met Tyr Thr Leu Leu Val Gly Lys Pro Pro Phe Glu Thr Ser Cys Leu		
260	265	270
Lys Glu Thr Tyr Leu Arg Ile Lys Lys Asn Glu Tyr Ser Ile Pro Lys		
275	280	285
His Ile Asn Pro Val Ala Ala Ser Leu Ile Gln Lys Met Leu Gln Thr		
290	295	300
Asp Pro Xaa Xaa Arg Gln Pro Leu Thr Xaa Cys Leu Xaa Thr Ser Asp		
305	310	315 320
Leu Ser Xaa Gln Lys Lys Xaa Xaa Xaa		
325		

&lt;210&gt; 1269

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1269

Leu Gln Thr Asn Ser Phe Pro Val Leu Leu Thr Gln Gly Leu Glu Ser
1 5 10 15
Asn Asp Phe Glu Met Leu Asn Lys Val Leu Gln Thr Arg Asn Val Asn
20 25 30
Leu Ile Lys Lys Thr Val Leu Arg Met Pro Leu His Thr Ile Ile Pro
35 40 45
Leu Leu Gln Glu Leu Thr Lys Arg Leu Gln Gly His Pro Asn Ser Ala
50 55 60
Val Leu Met Val Gln Trp Leu Lys Cys Val Leu Thr Val His Ala Ser
65 70 75 80

Tyr Leu Ser Thr Leu Pro Asp Leu Val Pro Gln Leu Gly Thr Leu Tyr  
85 90 95

Gln Leu Met Glu Ser Arg Val Lys Thr Phe Gln Lys Leu Ser His Leu  
100 105 110

His Gly Lys Leu Ile Leu Leu Ile Thr Gln Val Thr Ala Ser Glu Lys  
115 120 125

Thr Lys Gly Ala Thr Ser Pro Gly Gln Lys Ala Lys Leu Val Tyr Glu  
130 135 140

<210> 1270

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1270

Asn Ser Ala Arg Ala Thr Leu Asp Glu Ala Thr Pro Thr Leu Thr Asn  
1 5 10 15

Gln Ser Pro Thr Leu Thr Leu Gln Ser Thr Asn Thr His Thr Gln Ser  
20 25 30

Ser Ser Ser Ser Ser Xaa Gly Gly Leu Phe Arg Ser Arg Pro Ala His  
35 40 45

Ser Leu Pro Pro Gly Glu Asp Gly Arg Val Glu Pro Tyr Val Asp Phe  
50 55 60

Ala Glu Phe Tyr Arg Leu Trp Ser Val Asp His Gly Glu Gln Ser Val  
65 70 75 80

Val Thr Ala Pro

<210> 1271

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1271

Leu Gln Ala Ala Gly Gly His Leu Thr Ala Ala Pro Gly Ala Val His  
1 5 10 15

Gly Ala Ala Ala Val Arg Phe Gln Ala Ala Ala Xaa Xaa Gln Glu Gly  
20 25 30

Val Glu Ala Ala Pro Arg Pro Val Ser Pro Gln Ala Ser Leu Glu Glu  
35 40 45

Arg Ala Val Ser Arg Asn Pro Leu Cys Xaa Leu Cys Leu Glu Glu Arg  
50 55 60

Arg His Pro Thr Ala Thr Pro Cys Gly Xaa Leu Phe Cys Trp Glu Cys  
65 70 75 80

Ile Xaa Ala Trp Cys Ser Ser Lys Ala Glu Cys Pro Leu Leu Pro Gly  
85 90 95

Glu Ser Ser Leu Pro Arg Lys Leu Ile Tyr Leu Arg His Tyr Arg Leu  
100 105 110

Asn Arg Arg Pro Gly Trp Ala Leu Asp Thr Asn

115

120

&lt;210&gt; 1272

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1272

Gly Thr Glu Lys Arg Glu Lys Arg Leu Gly Ser His His Gly Glu Ala  
1 5 10 15

Gly Val Ser Gln Leu Thr Ser Ala Gly Asp Ser Gly Val Leu Val Leu  
20 25 30

Pro Leu Ser Leu Pro Pro Arg Ser Ser Leu Ala Gly Leu Ala Glu Ala  
35 40 45

Leu Leu Met Asn Leu Thr Glu Gly Pro Leu Ala Met Ala Glu Met Asp  
50 55 60

Pro Thr Gln Gly Arg Val Val Phe Glu Asp Val Ala Ile Tyr Phe Ser  
65 70 75 80

Arg Arg Ser Gly Gly Thr  
85

&lt;210&gt; 1273

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1273

Ile Glu Pro Leu Leu Arg Leu Leu Arg Ile Asn His Leu Leu Asn Arg  
1 5 10 15  
Ser Ala Tyr Gln Glu Gly Arg Glu Gly Ser Gln Lys Glu Met Leu Ala  
20 25 30  
Pro Gly Pro Arg Ser Gln Gly Leu Leu Thr Pro Gly Val Asp Phe Phe  
35 40 45  
Ser Glu Val Ala Pro Tyr Lys Gly Asn Met Ala Xaa Ala Gly Thr Ser  
50 55 60  
Thr Gly Arg Leu Xaa Ser Gly Xaa  
65 70

<210> 1274  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 1274  
His Leu Thr Tyr Ser Trp His Leu Val Gly Thr Glu Ser Met Asn Arg  
1 5 10 15  
Ser Tyr Trp Leu Pro Ile Gln Arg Leu Val Gly Val Val Ile Pro Ile  
20 25 30  
Ala Glu Ser Gln Leu Val Asn Gln Gln Gly Phe His Leu Cys Cys Ser  
35 40 45  
Pro Pro Pro Ser Pro Leu Glu Gly  
50 55

<210> 1275  
<211> 161  
<212> PRT  
<213> Homo sapiens

<400> 1275  
Leu Pro Gly Cys Arg Asn Ser Ala Gln Asn Cys Arg Leu Ile Phe Ser  
1 5 10 15  
Lys Ala Lys Pro Ser Val Leu Ala Leu Cys Leu Leu Asn Leu Glu Val  
20 25 30  
Glu Thr Leu Lys Ser Val Glu Leu Leu Glu Ile Leu Leu Leu Val Lys  
35 40 45

Lys His Ser Lys Ile Asn Asp Thr Glu Phe Phe Tyr Trp Arg Glu Leu  
50 55 60

Val Ser Lys Cys Leu Ala Glu Tyr Ser Ser Pro Glu Cys Cys Lys Pro  
65 70 75 80

Asp Leu Lys Lys Leu Val Trp Ile Val Ser Arg Arg Thr Ala Gln Asn  
85 90 95

Leu His Asn Ser Tyr Tyr Ser Val Pro Glu Leu Pro Thr Ile Pro Glu  
100 105 110

Gly Gly Cys Phe Asp Glu Ser Glu Ser Glu Asp Ser Cys Glu Asp Met  
115 120 125

Ser Cys Gly Glu Glu Ser Leu Ser Ser Ser Pro Pro Ser Asp Gln Glu  
130 135 140

Cys Thr Phe Phe Phe Asn Phe Lys Val Ala Gln Thr Leu Cys Phe Pro  
145 150 155 160

Ser

<210> 1276  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1276  
Asn Asn Lys Ser Leu Leu Lys Lys Tyr Ile Phe Phe Leu Leu Arg Ala  
1 5 10 15

Leu Leu Ala Ile Gly Asn Leu Lys Ile Ser Ser Pro Lys Gln Gly Pro  
20 25 30

Tyr Gln Ile Phe Leu Asp Pro Pro Met Leu Ser Val Leu Ala Thr His  
35 40 45

Cys

<210> 1277  
<211> 89  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 1277

Leu Asn Leu Leu Met Ser Thr Ile Leu Phe Leu Gln Asp Leu Pro Gly  
 1 5 10 15  
 Leu Lys Arg Asn Tyr Phe Pro Gly Pro Asn Thr Leu Val Phe Tyr Gln  
 20 25 30  
 His Leu Ile Asp Leu Gly Lys Ala Glu Cys Leu Thr Pro Ala Cys Gly  
 35 40 45  
 Ile Leu Leu Trp Gln Ala Glu Gln Thr Asn Thr Asp Phe Asn Ile Gln  
 50 55 60  
 Thr Lys Ser Lys Gly Met Glu Lys Asp Thr Pro Ser Gln Asn Lys Glu  
 65 70 75 80  
 Ser Ser Tyr Val Asn Leu Arg Gln Ser  
 85

&lt;210&gt; 1278

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1278

Pro Gln Pro Leu Pro Pro Pro Thr Ser Met Ala Arg His Val Phe Leu  
 1 5 10 15  
 Thr Gly Pro Pro Gly Val Gly Lys Thr Thr Leu Ile His Lys Ala Ser  
 20 25 30  
 Glu Val Leu Lys Ser Ser Gly Val Pro Val Asp Gly Phe Tyr Thr Glu  
 35 40 45  
 Glu Val Arg Gln Gly Gly Arg Arg Ile Gly Phe Asp Val Val Thr Leu  
 50 55 60  
 Ser Gly Thr Arg Gly Pro Leu Ser Arg Val Gly Leu Glu Pro Pro Pro  
 65 70 75 80  
 Gly Lys Arg Glu Cys Arg Val Gly Gln Tyr Val Val Asp Leu Thr Ser  
 85 90 95  
 Phe Glu Gln Leu Ala Leu Pro Val Leu Arg Asn Ala Asp Cys Ser Ser  
 100 105 110  
 Gly Pro Gly Gln Arg Val Cys Val Ile Asp Glu Ile Gly Lys Met Glu  
 115 120 125

Leu Phe Ser Gln Leu Phe Ile Gln Ala Val Arg Gln Thr Leu Ser Thr  
130 135 140

Pro Gly Thr Ile Ile Leu Gly Thr Ile Pro Val Pro Lys Gly Lys Pro  
145 150 155 160

Leu Ala Leu Val Glu Glu Ile Arg Asn Arg Lys Asp Val Lys Val Phe  
165 170 175

Asn Val Thr Lys Glu Asn Arg Asn His Leu Leu Pro Asp Ile Val Thr  
180 185 190

Cys Val Gln Ser Ser Arg Lys  
195

<210> 1279

<211> 183

<212> PRT

<213> Homo sapiens

<400> 1279

Phe Gly Thr Glu Gly Ala Met Ala Val Ala Asn Ser Ser Pro Val Asn  
1 5 10 15

Pro Val Val Phe Phe Asp Val Ser Ile Gly Gly Gln Glu Val Gly Arg  
20 25 30

Met Lys Ile Glu Leu Phe Ala Asp Val Val Pro Lys Thr Ala Glu Asn  
35 40 45

Phe Arg Gln Phe Cys Thr Gly Glu Phe Arg Lys Asp Gly Val Pro Ile  
50 55 60

Gly Tyr Lys Gly Ser Thr Phe His Arg Val Ile Lys Asp Phe Met Ile  
65 70 75 80

Gln Gly Gly Asp Phe Val Asn Gly Asp Gly Thr Gly Val Ala Ser Ile  
85 90 95

Tyr Arg Gly Pro Phe Ala Asp Glu Asn Phe Lys Leu Arg His Ser Ala  
100 105 110

Pro Gly Leu Leu Ser Met Ala Asn Ser Gly Pro Ser Thr Asn Gly Cys  
115 120 125

Gln Phe Phe Ile Thr Cys Ser Lys Cys Asp Trp Leu Asp Gly Lys His  
130 135 140

Val Val Phe Gly Lys Ile Ile Asp Gly Leu Leu Val Met Arg Lys Ile  
145 150 155 160

Glu Asn Val Pro Thr Gly Pro Asn Asn Lys Pro Lys Leu Pro Val Val  
165 170 175

Ile Ser Gln Cys Gly Glu Met  
180

<210> 1280

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1280

Asn Phe Cys Trp Asn Ile Ile Asn Gly Ser Ile Pro Lys Asp Thr Trp  
1 5 10 15

Xaa Leu Leu Leu Asp Phe Ser Thr Met Ile Ala Asp Asp Met Ser Asn  
20 25 30

Tyr Asp Glu Glu Gly Ala Trp Pro Val Leu Ile Asp Asp Phe Val Glu  
35 40 45

Phe Ala Arg Pro Gln Ile Ala Gly Thr Lys Ser Thr Thr Val  
50 55 60

<210> 1281

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1281

Cys Ser Phe Ile Ile Leu Ile Ile Leu Gly Pro Leu Glu Phe Ala Glu  
1 5 10 15

Ser Thr Leu Pro Val Leu Tyr Lys Trp Asn Asn Lys Ala Trp Met Thr  
20 25 30

Ala Cys Leu Phe Thr Ser  
35

1087

&lt;210&gt; 1282

&lt;211&gt; 515

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

Ser Ser Phe Phe Ser Phe Leu Ala Ala Ala Pro Gly Ser Ser Arg Arg  
 1 5 10 15

Ala Ala Pro Val Leu Arg Pro Glu Met Asn Pro Ala Ala Glu Ala Glu  
 20 25 30

Phe Asn Ile Leu Leu Ala Thr Asp Ser Tyr Lys Val Thr His Tyr Lys  
 35 40 45

Gln Tyr Pro Pro Asn Thr Ser Lys Val Tyr Ser Tyr Phe Glu Cys Arg  
 50 55 60

Glu Lys Lys Thr Glu Asn Ser Lys Leu Arg Lys Val Lys Tyr Glu Glu  
 65 70 75 80

Thr Val Phe Tyr Gly Leu Gln Tyr Ile Leu Asn Lys Tyr Leu Lys Gly  
 85 90 95

Lys Val Val Thr Lys Glu Lys Ile Gln Glu Ala Lys Asp Val Tyr Lys  
 100 105 110

Glu His Phe Gln Asp Asp Val Phe Asn Glu Lys Gly Trp Asn Tyr Ile  
 115 120 125

Leu Glu Lys Tyr Asp Gly His Leu Pro Ile Glu Ile Lys Ala Val Pro  
 130 135 140

Glu Gly Phe Val Ile Pro Arg Gly Asn Val Leu Phe Thr Val Glu Asn  
 145 150 155 160

Thr Asp Pro Glu Cys Tyr Trp Leu Thr Asn Trp Ile Glu Thr Ile Leu  
 165 170 175

Val Gln Ser Trp Tyr Pro Ile Thr Val Ala Thr Asn Ser Arg Glu Gln  
 180 185 190

Lys Lys Ile Leu Ala Lys Tyr Leu Leu Glu Thr Ser Gly Asn Leu Asp  
 195 200 205

Gly Leu Glu Tyr Lys Leu His Asp Phe Gly Tyr Arg Gly Val Ser Ser  
 210 215 220

Gln Glu Thr Ala Gly Ile Gly Ala Ser Ala His Leu Val Asn Phe Lys

225						230						235				240
Gly	Thr	Asp	Thr	Val	Ala	Gly	Leu	Ala	Leu	Ile	Lys	Lys	Tyr	Tyr	Gly	
				245					250						255	
Thr	Lys	Asp	Pro	Val	Pro	Gly	Tyr	Ser	Val	Pro	Ala	Ala	Glu	His	Ser	
			260					265					270			
Thr	Ile	Thr	Ala	Trp	Gly	Lys	Asp	His	Glu	Lys	Asp	Ala	Phe	Glu	His	
		275					280					285				
Ile	Val	Thr	Gln	Phe	Ser	Ser	Val	Pro	Val	Ser	Val	Val	Ser	Asp	Ser	
	290					295					300					
Tyr	Asp	Ile	Tyr	Asn	Ala	Cys	Glu	Lys	Ile	Trp	Gly	Glu	Asp	Leu	Arg	
305					310					315					320	
His	Leu	Ile	Val	Ser	Arg	Ser	Thr	Gln	Ala	Pro	Leu	Ile	Ile	Arg	Pro	
				325					330					335		
Asp	Ser	Gly	Asn	Pro	Leu	Asp	Thr	Val	Leu	Lys	Val	Leu	Glu	Ile	Leu	
			340					345					350			
Gly	Lys	Lys	Phe	Pro	Val	Thr	Glu	Asn	Ser	Lys	Gly	Tyr	Lys	Leu	Leu	
		355					360					365				
Pro	Pro	Tyr	Leu	Arg	Val	Ile	Gln	Gly	Asp	Gly	Val	Asp	Ile	Asn	Thr	
	370					375					380					
Leu	Gln	Glu	Ile	Val	Glu	Gly	Met	Lys	Gln	Lys	Met	Trp	Ser	Ile	Glu	
385					390					395					400	
Asn	Ile	Ala	Phe	Gly	Ser	Gly	Gly	Gly	Leu	Leu	Gln	Lys	Leu	Thr	Arg	
				405					410					415		
Asp	Leu	Leu	Asn	Cys	Ser	Phe	Lys	Cys	Ser	Tyr	Val	Val	Thr	Asn	Gly	
			420					425					430			
Leu	Gly	Ile	Asn	Val	Phe	Lys	Asp	Pro	Val	Ala	Asp	Pro	Asn	Lys	Arg	
		435					440					445				
Ser	Lys	Lys	Gly	Arg	Leu	Ser	Leu	His	Arg	Thr	Pro	Ala	Gly	Asn	Phe	
	450					455					460					
Val	Thr	Leu	Glu	Glu	Gly	Lys	Gly	Asp	Leu	Glu	Glu	Tyr	Gly	Gln	Asp	
465					470					475					480	
Leu	Leu	His	Thr	Val	Phe	Lys	Asn	Gly	Lys	Val	Thr	Lys	Ser	Tyr	Ser	
				485				490						495		
Phe	Asp	Glu	Ile	Arg	Lys	Asn	Ala	Gln	Leu	Asn	Ile	Glu	Leu	Glu	Ala	

500

505

510

Ala His His  
515

<210> 1283  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 1283

Arg Arg Leu His Leu Phe Leu Leu Ser Leu Leu Gly Met Leu Thr Ala  
1 5 10 15

Ser Gly Asn Ser Glu Leu Asn Ile Cys Phe Val Arg Lys Tyr Leu Phe  
20 25 30

Phe Tyr Phe Glu Val Trp Gln Pro Ser Cys Tyr Pro Lys Ala Lys Pro  
35 40 45

Leu Cys Gln Glu Ser Asn Lys Cys Leu Glu Ser Lys His Asp Val Ser  
50 55 60

Ile Val Gln Pro Pro Phe Ser Trp Leu Phe Lys Gly Cys Thr Ser Cys  
65 70 75 80

Ile Lys Gly Tyr Phe Met Leu Lys  
85

<210> 1284  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 1284

Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Ser Asp Trp  
1 5 10 15

Ser

<210> 1285  
<211> 515  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1285  
 Gly Cys Ser Leu His Leu Trp Ala Ser Leu Ala Arg His Ala Gly Gln  
     1                    5                    10                    15  
 Cys Leu Pro Ala Pro Phe Ala Thr Ser Ser Ala Leu Arg Gly Leu Glu  
                     20                    25                    30  
 Leu Gly Glu Arg Ala Gly Gly Leu Val Gly Trp Pro Gly Leu Arg Pro  
             35                    40                    45  
 Ala Ala Thr Thr Ile Leu Trp Pro Gly Arg Cys Glu Trp Ser Ala Gly  
     50                    55                    60  
 Gln Ser Ala Arg Cys Leu Ala Pro Gln Xaa Ile Pro Pro Ser Thr Pro  
     65                    70                    75                    80  
 Gly Ser Ser Asp Val Gly Gln Leu Cys Ala Gly Ala Cys Asp Pro Arg  
                     85                    90                    95  
 Xaa Gly Leu Gly Ala Ala Ser Ile Ala Ala Asp Gly Ala Pro Arg Gly  
     100                    105                    110  
 Pro Gly Glu Tyr Gln Pro Gly Lys Gly Ser Ala Arg Pro Xaa Thr Ala  
     115                    120                    125  
 Asp Pro Gly Arg Ala Gly Xaa Thr Glu Val Arg Glu Pro Ala Gly Ser  
     130                    135                    140  
 Ser Ala Gln Gln Arg Pro Lys Thr Arg Arg Val Ala Pro Leu Lys Asp  
     145                    150                    155                    160

Leu Pro Val Asn Asp Glu His Val Thr Val Pro Pro Trp Lys Ala Asn  
165 170 175

Ser Lys Gln Pro Ala Phe Thr Ile His Val Asp Glu Ala Glu Lys Glu  
180 185 190

Ala Gln Lys Lys Pro Ala Glu Ser Gln Lys Ile Glu Arg Glu Asp Ala  
195 200 205

Leu Ala Phe Asn Ser Ala Ile Ser Leu Pro Gly Pro Arg Lys Pro Leu  
210 215 220

Val Pro Leu Asp Tyr Pro Met Asp Gly Ser Phe Glu Ser Pro His Thr  
225 230 235 240

Met Asp Met Ser Ile Val Leu Glu Asp Glu Lys Pro Val Ser Val Asn  
245 250 255

Glu Val Pro Asp Tyr His Glu Asp Ile His Thr Tyr Leu Arg Glu Met  
260 265 270

Glu Val Lys Cys Lys Pro Lys Val Gly Tyr Met Lys Lys Gln Pro Asp  
275 280 285

Ile Thr Asn Ser Met Arg Ala Ile Leu Val Asp Trp Leu Val Glu Val  
290 295 300

Gly Glu Glu Tyr Lys Leu Gln Asn Glu Thr Leu His Leu Ala Val Asn  
305 310 315 320

Tyr Ile Asp Arg Phe Leu Ser Ser Met Ser Val Leu Arg Gly Lys Leu  
325 330 335

Gln Leu Val Gly Thr Ala Ala Met Leu Leu Ala Ser Lys Phe Glu Glu  
340 345 350

Ile Tyr Pro Pro Glu Val Ala Glu Phe Val Tyr Ile Thr Asp Asp Thr  
355 360 365

Tyr Thr Lys Lys Gln Val Leu Arg Met Glu His Leu Val Leu Lys Val  
370 375 380

Leu Thr Phe Asp Leu Ala Ala Pro Thr Val Asn Gln Phe Leu Thr Gln  
385 390 395 400

Tyr Phe Leu His Gln Gln Pro Ala Asn Cys Lys Val Glu Ser Leu Ala  
405 410 415

Met Phe Leu Gly Glu Leu Ser Leu Ile Asp Ala Asp Pro Tyr Leu Lys  
420 425 430



Tyr Leu Pro Ser Val Ile Ala Gly Ala Ala Phe His Leu Ala Leu Tyr  
 435 440 445

Thr Val Thr Gly Gln Ser Trp Pro Glu Ser Leu Ile Arg Lys Thr Gly  
 450 455 460

Tyr Thr Leu Glu Ser Leu Lys Pro Cys Leu Met Asp Leu His Gln Thr  
 465 470 475 480

Tyr Leu Lys Ala Pro Gln His Ala Gln Gln Ser Ile Arg Glu Lys Tyr  
 485 490 495

Lys Asn Ser Lys Tyr His Gly Val Ser Leu Leu Asn Pro Pro Glu Thr  
 500 505 510

Leu Asn Leu  
 515

<210> 1286

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1286

Arg Pro Ala Cys Pro Ser Gln Glu Arg Pro Pro Pro Ser Gln Gln Met  
 1 5 10 15

Arg Gln Gly Cys Leu Ala Leu Pro Lys Ser Glu Ser Leu Pro Ser Gly

20 25 30

Ile Cys Arg Ser Ala Gln Gly Ser Arg Arg Ser Arg Gly Ala Gly Ala  
35 40 45

Ala Gly Pro Gln Pro Pro Leu Glu Arg Ala Asp Val Leu Asn Val Ser  
50 55 60

Pro Gly Arg Cys Leu Pro His Gln Trp Lys Leu Ser Ser Cys Cys Lys  
65 70 75 80

Thr Trp Leu Phe Xaa Glu Ser Phe Glu Ile His Arg Ser Thr Tyr Xaa  
85 90 95

Val His Gln Arg Thr Xaa Gly Ala Gly Val Xaa Pro  
100 105

<210> 1287

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (211)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1287

Gln Val Arg Phe Pro Ala Glu Glu Ala Ser Ser Pro Ala Pro Trp His  
1 5 10 15

Pro Lys Ala Ala Ala Arg Ala Leu Pro Gln Ala Leu Ala Asn Gly Ala  
20 25 30

Gln Leu Leu Leu Leu Gly Ser Ala Gly Pro Thr Met Glu Asn Gln Val  
35 40 45

Gln Thr Leu Thr Ser Tyr Leu Trp Ser Arg His Leu Pro Val Glu Pro  
50 55 60

Glu Glu Leu Gln Arg Arg Ala Arg His Leu Glu Lys Lys Phe Leu Glu  
65 70 75 80

Asn Pro Asp Leu Ser Gln Thr Glu Glu Lys Leu Arg Gly Ala Val Leu  
85 90 95

His Ala Leu Arg Lys Thr Thr Tyr His Trp Gln Glu Leu Ser Tyr Thr  
100 105 110

Glu Gly Leu Ser Leu Val Tyr Met Ala Ala Arg Leu Asp Gly Gly Phe  
115 120 125

Ala Ala Val Ser Arg Ala Phe His Glu Ile Arg Ala Arg Asn Pro Ala  
130 135 140

Phe Gln Pro Gln Thr Leu Met Asp Phe Gly Ser Gly Thr Gly Leu Ser  
145 150 155 160

Pro Gly Leu Xaa Thr Val Phe Gly Ala Arg Ala Tyr Val Asn Ile Trp  
165 170 175

Cys Gly Gln Ile Thr Cys Met Trp Phe Ala Glu Asn Ser Glu Arg Gly  
180 185 190

Xaa Ile Gly Ser Leu Tyr Ser Gly Leu Phe Xaa Ser Ser Thr Xaa Asn  
195 200 205

Gln Xaa Xaa Leu Met Ile  
210

&lt;210&gt; 1288

&lt;211&gt; 68

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1288

Xaa Ser Leu Asn Cys Gly Ser Ile Ser Thr Xaa Thr Asn Gln Gly Ser  
1 5 10 15

Pro Leu Ser Val Gly Tyr His Phe Pro Leu Leu Pro Pro Val Ile Phe  
20 25 30

Thr Phe Ser Thr Thr Gly Glu Leu Met Gly Ser Glu Gly Gln Met Tyr  
35 40 45

Phe Leu Phe Gly His Arg Gly Phe Pro Val Leu Cys Val Phe Leu Met  
50 55 60

Lys Glu Ser Leu  
65

<210> 1289

<211> 318

<212> PRT

<213> Homo sapiens

<400> 1289

Arg Leu Gln Val Val Gln Gln Trp Ile Gln Arg Ile Arg Gln Arg Pro  
1 5 10 15

Gly Cys Leu Trp Leu Leu Ala Val Ala Leu Leu Pro Trp Thr Cys Ala  
20 25 30

Ser Arg Ala Leu Gln His Leu Asp Pro Pro Ala Pro Leu Pro Leu Val  
35 40 45

Ile Trp His Gly Met Gly Asp Ser Cys Cys Asn Pro Leu Ser Met Gly  
50 55 60

Ala Ile Lys Lys Met Val Glu Lys Lys Ile Pro Gly Ile Tyr Val Leu  
65 70 75 80

Ser Leu Glu Ile Gly Lys Thr Leu Met Glu Asp Val Glu Asn Ser Phe  
                             85                            90                            95

Phe Leu Asn Val Asn Ser Gln Val Thr Thr Val Cys Gln Ala Leu Ala  
                             100                            105                            110

Lys Asp Pro Lys Leu Gln Gln Gly Tyr Asn Ala Met Gly Phe Ser Gln  
                             115                            120                            125

Gly Gly Gln Phe Leu Arg Ala Val Ala Gln Arg Cys Pro Ser Pro Pro  
                             130                            135                            140

Met Ile Asn Leu Ile Ser Val Gly Gly Gln His Gln Gly Val Phe Gly  
                             145                            150                            155                            160

Leu Pro Arg Cys Pro Gly Glu Ser Ser His Ile Cys Asp Phe Ile Arg  
                             165                            170                            175

Lys Thr Leu Asn Ala Gly Ala Tyr Ser Lys Val Val Gln Glu Arg Leu  
                             180                            185                            190

Val Gln Ala Glu Tyr Trp His Asp Pro Ile Lys Glu Asp Val Tyr Arg  
                             195                            200                            205

Asn His Ser Ile Phe Leu Ala Asp Ile Asn Gln Glu Arg Gly Ile Asn  
                             210                            215                            220

Glu Ser Tyr Lys Lys Asn Leu Met Ala Leu Lys Lys Phe Val Met Val  
                             225                            230                            235                            240

Lys Phe Leu Asn Asp Ser Ile Val Asp Pro Val Asp Ser Glu Trp Phe  
                             245                            250                            255

Gly Phe Tyr Arg Ser Gly Gln Ala Lys Glu Thr Ile Pro Leu Gln Glu  
                             260                            265                            270

Thr Ser Leu Tyr Thr Gln Asp Arg Leu Gly Leu Lys Glu Met Asp Asn  
                             275                            280                            285

Ala Gly Gln Leu Val Phe Leu Ala Thr Glu Gly Asp His Leu Gln Leu  
                             290                            295                            300

Ser Glu Glu Trp Phe Tyr Ala His Ile Ile Pro Phe Leu Gly  
                             305                            310                            315

<210> 1290

<211> 119

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1290

Lys His Met Gly Ser Cys Arg Leu Leu Leu Cys Phe Phe Pro Leu Ser  
1 5 10 15

Arg Trp Pro Gly Arg Asp Thr Thr Phe Cys Asn Gln Gly Thr Glu Asn  
20 25 30

Arg Arg Ala Cys Ser Gln Gln Ala Asn Ser Leu Arg Tyr Lys Ile Thr  
35 40 45

Tyr Arg Ser Cys Leu Arg Met Val Thr Asp Arg Pro Asp Cys Leu Gly  
50 55 60

His Arg Asn Thr Ser Cys Phe Pro Leu Lys Lys Val Leu Pro Glu Ala  
65 70 75 80

Phe Cys Leu Ser Ala Pro Cys Trp Ser Glu Val Gln Ala Asp Glu Asn  
85 90 95

Pro Asp Ile Ala Cys Gly Gly Leu Gln Leu Arg Lys Val Gly Arg Glu  
100 105 110

Ile Ile Leu Val Leu Val Gln  
115

&lt;210&gt; 1291

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1291

Ile Ser Asp Pro Tyr Ser Gln Gly Tyr Asn Tyr Ser Lys Lys Tyr Ile  
1 5 10 15

Gln Gly Lys Leu Xaa Leu Ile Ser Ser Leu Thr Tyr Arg Gly Asn Lys  
20 25 30

Thr Xaa Val Leu Gln Ile Gly Leu Gln Xaa His His Cys Ser Gly  
35 40 45

<210> 1292

<211> 275

<212> PRT

<213> Homo sapiens

<400> 1292

Gly Gly Ala Ser Asn Phe Leu Ser Trp Arg Glu Ser Ala Arg Trp Ser  
1 5 10 15

Arg Gln Leu Arg Arg Thr Leu Ile Arg Leu Ser Phe Pro Ile Ser Cys  
20 25 30

Gly Arg Ser His Ala Phe Gly Gly Cys Lys Met Ala Ala Thr Ser Gly  
35 40 45

Thr Asp Glu Pro Val Ser Gly Glu Leu Val Ser Val Ala His Ala Leu  
50 55 60

Ser Leu Pro Ala Glu Ser Tyr Gly Asn Asp Pro Asp Ile Glu Met Ala  
65 70 75 80

Trp Ala Met Arg Ala Met Gln His Ala Glu Val Tyr Tyr Lys Leu Ile  
85 90 95

Ser Ser Val Asp Pro Gln Phe Leu Lys Leu Thr Lys Val Asp Asp Gln  
100 105 110

Ile Tyr Ser Glu Phe Arg Lys Asn Phe Glu Thr Leu Arg Ile Asp Val  
115 120 125

Leu Asp Pro Glu Glu Leu Lys Ser Glu Ser Ala Lys Glu Lys Trp Arg  
130 135 140

Pro Phe Cys Leu Lys Phe Asn Gly Ile Val Glu Asp Phe Asn Tyr Gly  
145 150 155 160

Thr Leu Leu Arg Leu Asp Cys Ser Gln Gly Tyr Thr Glu Glu Asn Thr  
165 170 175

Ile Phe Ala Pro Arg Ile Gln Phe Phe Ala Ile Glu Ile Ala Arg Asn  
180 185 190

Arg Glu Gly Tyr Asn Lys Ala Val Tyr Ile Ser Val Gln Asp Lys Glu  
 195 200 205

Gly Glu Lys Gly Val Asn Asn Gly Gly Glu Lys Arg Ala Asp Ser Gly  
 210 215 220

Glu Glu Glu Asn Thr Lys Asn Gly Gly Glu Lys Gly Ala Asp Ser Gly  
 225 230 235 240

Glu Glu Lys Glu Glu Gly Ile Asn Arg Glu Asp Lys Thr Asp Lys Gly  
 245 250 255

Gly Glu Lys Gly Lys Glu Ala Asp Lys Glu Ile Asn Lys Ser Gly Glu  
 260 265 270

Lys Ala Met  
 275

<210> 1293  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1293  
 Gln Ile His Gly Gln Val Val Gly Thr Val Thr Cys Lys Cys Asp Leu  
 1 5 10 15

Glu Gly Ile Met Pro Asn Val Thr Ile Ser Leu Ser Leu Pro Thr Xaa  
 20 25 30

Gly Ser Pro Leu Gln Asp Ile Leu Val His Pro Cys Val Thr Ser Leu  
 35 40 45

Asp Ser Ala Ile Leu Thr Ser Ser Ser Ile Asp Ala Met Asp Asp Ser  
 50 55 60

Ala Phe Ser Gly Pro Tyr Lys Phe Pro Phe Thr Pro Pro Leu Glu Ser  
 65 70 75 80



Phe Asn Leu Cys Phe Xaa Thr Ser Gln Val Pro Val Pro Pro Ile Leu  
                     85                    90                    95  
 Gly Phe Tyr Gln Met Lys Glu Glu Glu Val Gln Leu Arg Ile Thr Ile  
                     100                    105                    110  
 Asn Leu Lys Leu His Glu Ser Val Lys Asn Asn Phe Glu Phe Cys Glu  
                     115                    120                    125  
 Ala His Ile Pro Phe Tyr Asn Arg Gly Pro Ile Thr His Leu Glu Tyr  
                     130                    135                    140  
 Lys Thr Ser Phe Gly Gln Leu Glu Val Phe Arg Glu Lys Ser Leu Leu  
 145                    150                    155                    160  
 Ile Trp Ile Ile Gly Gln Lys Phe Pro Lys Ser Met Glu Ile Ser Leu  
                     165                    170                    175  
 Ser Gly Thr Val Thr Phe Gly Ala Lys Ser His Glu Lys Gln Pro Phe  
                     180                    185                    190  
 Asp Pro Ile Cys Thr Gly Glu Thr Ala Tyr Leu Lys Leu His Phe Arg  
                     195                    200                    205  
 Ile Leu Asp Tyr Thr Leu Thr Gly Cys Tyr Ala Asp Gln His Ser Val  
                     210                    215                    220  
 Gln Val Phe Ala Ser Gly Lys Pro Lys Ile Ser Ala His Arg Lys Leu  
 225                    230                    235                    240  
 Ile Ser Ser Asp Tyr Tyr Ile Trp Asn Ser Lys Ala Pro Ala Pro Val  
                     245                    250                    255  
 Thr Tyr Gly Ser Leu Leu Leu  
                     260

&lt;210&gt; 1294

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1294

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Arg Ser Cys Leu  
 1                    5                    10                    15

Val Met Ser Gly Arg Gly Lys Gly Gly Lys Gly Leu Gly Lys Gly Gly  
20 25 30  
Ala Lys Arg His Arg Lys Val Leu Arg Asp Asn Ile Gln Gly Ile Thr  
35 40 45  
Lys Pro Ala Ile Arg Arg Leu Ala Arg Arg Gly Gly Val Lys Arg Ile  
50 55 60  
Ser Gly Leu Ile Tyr Glu Glu Thr Arg Gly Val Leu Lys Val Phe Leu  
65 70 75 80  
Glu Asn Val Ile Arg Asp Ala Val Xaa Tyr Thr Glu His Ala Lys Arg  
85 90 95  
Lys Thr Val Thr Ala Met Asp Val Val Tyr Ala Leu Lys Arg Gln Gly  
100 105 110  
Arg Thr Leu Tyr Gly Phe Gly Gly  
115 120

<210> 1295

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1295

Lys Thr Gly Asn Gly Arg Val Tyr Pro His Pro Gln Asp Leu Leu Ala  
1 5 10 15

Ala Leu Pro Leu Ala Leu Val Leu Leu Ala Met Arg Leu Ala Phe Glu  
20 25 30

Lys Ile His Trp Pro Ala Pro Glu Pro Val Xaa Xaa Cys Glu Gly Ser  
35 40 45

Asp Gln Glu Ala Ser Glu Ala Gln Arg His Ala Gly Glu Thr Leu Pro  
50 55 60

His Gly Arg Ala Gln Ala Lys Glu Pro Gln Leu Ser Leu Leu Ala Ala  
65 70 75 80

Gln Cys Gly Leu Thr Leu Gln Gln Thr Gln Arg Trp Phe Arg Arg Arg  
85 90 95

Arg Asn Gln Asp Arg Pro Gln Leu Thr Lys Lys Phe Cys Glu Ala Ser  
100 105 110

Trp Arg Phe Leu Phe Tyr Leu Ser Ser Phe Val Gly Gly Leu Ser Val  
115 120 125

Leu Tyr His Glu Ser Trp Leu Trp Ala Pro Val Met Cys Trp Asp Arg  
130 135 140

Tyr Pro Asn Gln Thr Leu Lys Pro Ser Leu Xaa Trp Trp Xaa Leu Xaa  
145 150 155 160

Gly Ala Gly Phe Leu Thr Ser Xaa Cys Leu Ile Arg Cys Leu  
165 170

<210> 1296

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1296

Ala His Ser Ser Ile Pro Ala Lys His Arg Asn Met Thr Glu Met Ser

1	5	10	15
Phe Leu Ser Ser Glu Val Leu Val Gly Asp Leu Met Ser Pro Phe Asp	20	25	30
Gln Ser Gly Leu Gly Ala Glu Glu Ser Leu Gly Leu Leu Asp Asp Tyr	35	40	45
Leu Glu Val Ala Lys His Phe Lys Pro His Gly Phe Ser Ser Asp Lys	50	55	60
Ala Lys Ala Gly Ser Ser Glu Trp Leu Ala Val Asp Gly Leu Val Ser	65	70	75
Pro Ser Asn Asn Ser Lys Glu Asp Ala Phe Ser Gly Thr Asp Trp Met	85	90	95
Leu Glu Lys Met Asp Leu Lys Glu Phe Asp Leu Asp Ala Leu Leu Gly	100	105	110
Ile Asp Asp Leu Glu Thr Met Pro Asp Asp Leu Leu Thr Thr Leu Asp	115	120	125
Asp Thr Cys Asp Leu Phe Ala Pro Leu Val Gln Glu Thr Asn Lys Gln	130	135	140
Pro Pro Gln Thr Val Asn Pro Ile Gly His Leu Pro Glu Ser Leu Thr	145	150	155
Lys Pro Asp Gln Val Ala Pro Phe Thr Phe Leu Gln Pro Leu Pro Leu	165	170	175
Ser Pro Gly Val Leu Ser Ser Thr Pro Asp His Ser Phe Ser Leu Glu	180	185	190
Leu Gly Ser Glu Val Asp Ile Thr Glu Gly Asp Arg Lys Pro Asp Tyr	195	200	205
Thr Ala Tyr Val Ala Met Ile Pro Gln Cys Ile Lys Glu Glu Asp Thr	210	215	220
Pro Ser Asp Asn Asp Ser Gly Ile Cys Met Ser Pro Glu Ser Tyr Leu	225	230	235
Gly Ser Pro Gln His Ser Pro Ser Thr Arg Gly Ser Pro Asn Arg Ser	245	250	255
Leu Pro Ser Ser Arg Cys Ser Leu Trp Val Cys Pro Ser Gln Thr Leu	260	265	270
Arg Ser Ser Trp Arg Glu Asp Gly Ser Ser Lys Ser Lys Gly			

275

280

285

&lt;210&gt; 1297

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1297

Ala Ala Arg Gly Arg Ala Ala Ala Glu His Pro Ala Gly Ala Asp Ser  
1 5 10 15

Met Ala Ser Pro Asp Pro Pro Ala Thr Ser Tyr Ala Pro Ser Asp Val  
20 25 30

Pro Ser Gly Val Ala Leu Phe Leu Thr Ile Pro Phe Ala Phe Phe Leu  
35 40 45

Pro Glu Leu Ile Phe Gly Phe Leu Val Trp Thr Met Val Ala Ala Thr  
50 55 60

His Ile Val Tyr Pro Leu Leu Gln Gly Trp Val Met Tyr Val Ser Leu  
65 70 75 80

Thr Ser Phe Leu Ile Ser Leu Met Phe Leu Leu Ser Tyr Leu Phe Gly  
85 90 95

Phe Tyr Lys Arg Phe Glu Ser Trp Arg Val Leu Asp Ser Leu Tyr His  
100 105 110

Gly Thr Thr Gly Ile Leu Tyr Met Ser Ala Ala Val Leu Gln Val His  
115 120 125

Ala Thr Ile Val Ser Glu Lys Leu Leu Asp Pro Arg Ile Tyr Tyr Ile  
130 135 140

Asn Ser Ala Ala Ser Phe Phe Ala Phe Ile Ala Thr Leu Leu Tyr Ile  
145 150 155 160

Leu His Ala Phe Ser Ile Tyr Tyr His  
165

&lt;210&gt; 1298

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1298

Ala Leu Arg Asn Glu Met Ala Val Leu Trp Arg Leu Ser Ala Val Cys  
1 5 10 15  
Gly Ala Leu Gly Gly Arg Ala Leu Leu Leu Arg Thr Pro Val Val Arg  
20 25 30  
Pro Ala His Ile Ser Ala Phe Leu Gln Asp Arg Pro Ile Pro Glu Trp  
35 40 45  
Cys Gly Val Gln His Ile His Leu Ser Pro Ser His His Ser Gly Ser  
50 55 60  
Lys Ala Ala Ser Leu His Trp Thr Ser Glu Arg Val Val Ser Val Leu  
65 70 75 80  
Leu Leu Gly Leu Leu Pro Ala Ala Tyr Leu Asn Pro Cys Ser Ala Met  
85 90 95  
Asp Tyr Ser Leu Ala Ala Ala Leu Thr Leu His Gly His Trp Gly Leu  
100 105 110  
Gly Gln Val Val Thr Asp Tyr Val His Gly Asp Ala Leu Gln Lys Ala  
115 120 125  
Ala Lys Ala Gly Leu Leu Ala Leu Ser Ala Leu Thr Phe Ala Gly Leu  
130 135 140  
Cys Tyr Phe Asn Tyr His Asp Val Gly Ile Cys Lys Ala Val Ala Met  
145 150 155 160  
Leu Trp Lys Leu

<210> 1299

<211> 717

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (232)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (379)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (389)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (671)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1299  
 Val Cys Leu Gln Arg Asp Ala Pro Arg Gly Gln Ala Arg Ser Pro Gly  
   1                  5                  10                  15  
 Glu Ala Gln Glu Pro Glu Glu Leu Ala Arg Arg Gln Arg Arg His Pro  
           20                  25                  30  
 Glu Leu Ser Gln Gly Glu Xaa Val Ala Ser Val Ile Ile Tyr Arg Thr  
       35                  40                  45  
 Leu Ala Gly Leu Leu Pro His Asn Tyr Asp Pro Asp Lys Arg Ser Leu  
       50                  55                  60  
 Arg Val Pro Lys Arg Pro Ile Ile Asn Thr Pro Val Val Ser Ile Ser  
       65                  70                  75                  80  
 Val His Asp Asp Glu Glu Leu Leu Pro Arg Ala Leu Asp Lys Pro Val  
           85                  90                  95  
 Thr Val Gln Phe Arg Leu Leu Glu Thr Glu Glu Arg Thr Lys Pro Ile  
       100                  105                  110  
 Cys Val Phe Trp Asn His Ser Ile Leu Val Ser Gly Thr Gly Gly Trp  
       115                  120                  125  
 Ser Ala Arg Gly Cys Glu Val Val Phe Arg Asn Glu Ser His Val Ser  
       130                  135                  140

Cys Gln Xaa Asn His Met Thr Ser Phe Ala Val Leu Met Asp Val Ser  
145 150 155 160

Arg Arg Glu Asn Gly Glu Ile Leu Pro Leu Lys Thr Leu Thr Tyr Val  
165 170 175

Ala Leu Gly Val Xaa Leu Ala Ala Leu Leu Leu Thr Phe Phe Phe Leu  
180 185 190

Thr Leu Leu Arg Ile Leu Arg Ser Asn Gln His Gly Ile Arg Arg Asn  
195 200 205

Leu Thr Ala Ala Leu Gly Leu Ala Gln Leu Val Phe Leu Leu Gly Ile  
210 215 220

Asn Gln Ala Asp Leu Pro Phe Xaa Cys Thr Val Ile Ala Ile Leu Leu  
225 230 235 240

His Phe Leu Tyr Leu Cys Thr Phe Ser Trp Ala Leu Leu Glu Ala Leu  
245 250 255

His Leu Tyr Arg Ala Leu Thr Glu Val Arg Asp Val Asn Thr Gly Pro  
260 265 270

Met Arg Phe Tyr Tyr Met Leu Gly Trp Gly Val Pro Ala Phe Ile Thr  
275 280 285

Gly Leu Ala Val Gly Leu Asp Pro Glu Gly Tyr Gly Asn Pro Asp Phe  
290 295 300

Cys Trp Leu Ser Ile Tyr Asp Thr Leu Ile Trp Ser Phe Gly Gly Pro  
305 310 315 320

Val Ala Phe Ala Val Ser Met Ser Val Phe Leu Tyr Ile Leu Ala Ala  
325 330 335

Arg Ala Ser Cys Ala Ala Gln Arg Gln Gly Phe Glu Lys Lys Gly Pro  
340 345 350

Val Ser Gly Leu Gln Pro Ser Phe Ala Val Leu Leu Leu Leu Ser Ala  
355 360 365

Thr Trp Leu Leu Ala Leu Leu Ser Val Asn Xaa Asp Thr Leu Leu Phe  
370 375 380

His Tyr Leu Phe Xaa Thr Cys Asn Cys Ile Gln Gly Pro Phe Ile Phe  
385 390 395 400

Leu Ser Tyr Val Val Leu Ser Lys Glu Val Arg Lys Ala Leu Lys Leu  
405 410 415



Ala Cys Ser Arg Lys Pro Ser Pro Asp Pro Ala Leu Thr Thr Lys Ser  
420 425 430

Thr Leu Thr Ser Ser Tyr Asn Cys Pro Ser Pro Tyr Ala Asp Gly Arg  
435 440 445

Leu Tyr Gln Pro Tyr Gly Asp Ser Ala Gly Ser Leu His Ser Thr Ser  
450 455 460

Arg Ser Gly Lys Ser Gln Pro Ser Tyr Ile Pro Phe Leu Leu Arg Glu  
465 470 475 480

Glu Ser Ala Leu Asn Pro Gly Gln Gly Pro Pro Gly Leu Gly Asp Pro  
485 490 495

Gly Ser Leu Phe Leu Glu Gly Gln Asp Gln Gln His Asp Pro Asp Thr  
500 505 510

Asp Ser Asp Ser Asp Leu Ser Leu Glu Asp Asp Gln Ser Gly Ser Tyr  
515 520 525

Ala Ser Thr His Ser Ser Asp Ser Glu Glu Glu Glu Glu Glu Glu  
530 535 540

Glu Glu Ala Ala Phe Pro Gly Glu Gln Gly Trp Asp Ser Leu Leu Gly  
545 550 555 560

Pro Gly Ala Glu Arg Leu Pro Leu His Ser Thr Pro Lys Asp Gly Gly  
565 570 575

Pro Gly Pro Gly Lys Ala Pro Trp Pro Gly Asp Phe Gly Thr Thr Ala  
580 585 590

Lys Glu Ser Ser Gly Asn Gly Ala Pro Glu Glu Arg Leu Arg Glu Asn  
595 600 605

Gly Asp Ala Leu Ser Arg Glu Gly Ser Leu Gly Pro Leu Pro Gly Ser  
610 615 620

Ser Ala Gln Pro His Lys Gly Ile Leu Lys Lys Lys Cys Leu Pro Thr  
625 630 635 640

Ile Ser Glu Lys Ser Ser Leu Leu Arg Leu Pro Leu Glu Gln Cys Thr  
645 650 655

Gly Ser Ser Arg Gly Ser Ser Ala Ser Glu Gly Ser Arg Gly Xaa Pro  
660 665 670

Pro Pro Arg Pro Pro Pro Arg Gln Ser Leu Gln Glu Gln Leu Asn Gly  
675 680 685

Val Met Pro Ile Ala Met Ser Ile Lys Ala Gly Thr Val Asp Glu Asp  
690 695 700

Ser Ser Gly Ser Glu Phe Leu Phe Phe Asn Phe Leu His  
705 710 715

<210> 1300

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1300

Ala Ser Arg Asn Ala Asp Leu Ser Ile Thr Leu Gly Thr Ser Leu Gln



20 25 30  
Glu Pro Gly Arg Trp Glu Val Thr Val Ser Gln Val Cys Ala Thr Ala  
35 40 45  
Phe Gln Pro Gly Leu Ile Glu Trp Asp Phe Arg Leu Gln Lys Lys Lys  
50 55 60  
Lys Lys Xaa Xaa  
65

<210> 1302  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 1302  
Lys Tyr Pro Val Pro Arg Pro Leu Phe Thr His Ala Cys Lys Phe Thr  
1 5 10 15  
Gly Lys Thr Leu Glu Thr Asn Val Leu Ser Ser Thr Glu Ile Trp Pro  
20 25 30  
Ser Ser Leu Phe Leu Asn Cys Ser Leu Cys Val Arg His Ile Cys Leu  
35 40 45  
Ile Pro His Ser Ala Leu Thr Phe Arg Gln Ile Arg  
50 55 60

<210> 1303  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 1303  
Arg Ser Asp Ser Arg Ser Thr His Ala Ser Gly Arg Leu Arg Thr Ala  
1 5 10 15  
Gln Leu Ala Pro Pro Gly Leu Gly Arg Thr Arg Ser Gly Phe Ser Ser  
20 25 30  
Cys Arg Pro Tyr Gly Ala Val Phe Ser Leu Ser Arg Gly Val Arg Ala  
35 40 45  
Ser His Ala Gly Pro Gly Arg Glu Lys Ser Lys Ala Cys Arg Gly Cys  
50 55 60

Arg Glu Lys Thr Lys Arg Gly Cys Ile Ser Gly Asn Phe Arg Cys Ser  
65 70 75 80

Ile Cys Ala Arg Lys Glu Lys Glu Lys Gly Lys Asn Arg Lys Thr Asn  
85 90 95

Cys Tyr Ile Arg Ala Pro Thr Arg Arg Trp Thr  
100 105

<210> 1304

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1304

Lys His Ile Phe Trp Leu Ala Glu Lys Asn Lys Thr Lys Leu Leu Phe  
1 5 10 15

Leu Phe Leu Ala Leu Arg Val Tyr Ser Lys Arg Asp Phe Phe Glu Leu  
20 25 30

Phe Leu Tyr Tyr Phe Ser Phe Asn Cys Ala Val Val His Glu Thr Glu  
35 40 45

Leu Leu Cys Phe Ser Val Arg Asp Gly Lys Gly Phe Phe Ser Ile Ser  
50 55 60

Phe Met Cys Gly Ile  
65

<210> 1305

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1305

Lys Asn Val Ile Gly Thr Ile Asn Lys Asp Cys Glu Arg Leu Phe Lys  
1 5 10 15

Ser Cys Glu Ser Leu Lys Pro Ile Ser Gln Gly Val Pro Cys Leu Asn  
20 25 30

Leu Leu Leu Phe Pro Gln Arg Thr Lys Pro Val His Lys Leu Pro Lys  
35 40 45

Leu Pro Phe Trp Arg Trp Lys Leu Thr Arg Arg Glu Gly Leu Leu Leu  
50 55 60

Glu Ser Ile Gln Tyr Lys Gln Ile Ile Leu Pro  
65 70 75

<210> 1306

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1306

Pro Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Trp  
1 5 10 15

Ala Leu Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala  
20 25 30

Glu Glu Ser Leu Lys Pro Arg Arg Arg Arg Leu Gln  
35 40

<210> 1307

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1307

Arg Leu Cys Ala Phe Asn Lys Arg Met Thr Phe Gln Phe Asn Phe Thr  
1 5 10 15

Ile Glu Asp His Leu Glu Asn Glu Leu Thr Pro Ile Arg Asp Gly Ala  
20 25 30

Leu Thr Leu Asp Ser Ser Lys Glu Leu Ser Val Ser Glu Ser Gln Lys  
35 40 45

Gly Glu Glu Arg Asp Arg Lys Cys Ser Ala Glu Gln Phe Asp Leu Pro  
50 55 60

Gln Asp His Leu Trp Glu His Lys Ser Met Glu Asn Ala Ala Pro Ser  
65 70 75 80

Gln Asp Thr Asp Ser Pro Leu Ser Ala Ala Ser Ser Ser Arg Asn Leu  
85 90 95

Gly Ala Thr Trp Glu Asn Ser Pro Pro  
100 105

<210> 1308

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1308

Gly Arg Ala His Ala Ile Thr Val Ser Val Ala Asn Xaa Lys Ala Leu  
1 5 10 15

Ala Lys Cys Glu Lys Tyr Met Leu Thr His Gln Glu Leu Ala Ser Asp  
20 25 30

Gly Glu Ile Glu Thr Lys Leu Ile Lys Gly Asp Ile Tyr Lys Thr Arg  
35 40 45

Gly Gly Gly Gln Ser Val Gln Phe Thr Asp Ile Glu Thr Leu Lys Gln  
50 55 60

Glu Ser Pro Asn Gly Val Leu Trp Leu Trp Arg  
65 70 75

<210> 1309

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1309

Leu Glu Arg Phe Ala Ser Arg Arg Pro Gln Val Leu Ala Val Arg Thr  
1 5 10 15

Val Cys Asp Leu Val Leu Gly Lys Met Asp Lys Asp Cys Glu Met Lys  
20 25 30

Arg Thr Thr Leu Asp Ser Pro Leu Gly Lys Leu Glu Leu Ser Gly Cys  
35 40 45

Glu Gln Gly Leu His Glu Ile Lys Leu Leu Gly Lys Gly Thr Ser Ala  
50 55 60

Ala Asp Ala Val Glu Val Pro Ala Pro Ala Ala Val Leu Gly Gly Pro  
 65 70 75 80  
 Glu Pro Leu Met Gln Cys Thr Ala Trp Leu Asn Ala Tyr Phe His Gln  
 85 90 95  
 Pro Glu Ala Ile Glu Glu Phe Pro Val Pro Ala Leu His His Pro Val  
 100 105 110  
 Phe Gln Gln Glu Ser Phe Thr Arg Gln Val Leu Trp Lys Leu Leu Lys  
 115 120 125  
 Val Val Lys Phe Gly Glu Val Ile Ser Tyr Gln Gln Leu Ala Ala Leu  
 130 135 140  
 Ala Gly Asn Pro Lys Ala Ala Arg Ala Val Gly Gly Ala Met Arg Gly  
 145 150 155 160  
 Asn Pro Val Pro Ile Leu Ile Pro Cys His Arg Val Val Cys Ser Ser  
 165 170 175  
 Gly Xaa Val Gly Asn Tyr Ser Gly Gly Leu Ala Val Lys Glu Trp Leu  
 180 185 190  
 Leu Ala His Glu Gly His Arg Leu Gly Lys Pro Gly Leu Gly Gly Ser  
 195 200 205  
 Ser Gly Leu Ala Gly Ala Trp Leu Lys Gly Ala Gly Ala Thr Ser Gly  
 210 215 220  
 Ser Pro Pro Ala Gly Arg Asn  
 225 230

&lt;210&gt; 1310

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1310

Pro Val Leu Thr Pro Ala Thr Leu Ile Tyr Phe Ser Ile Asn Cys Leu  
 1 5 10 15  
 Ser Gly Ser Gln Ser Trp Asn His His Ser Gly Arg Gly Leu Ala Cys  
 20 25 30  
 Thr Arg Met Phe Glu Val Val Ser Ser Thr Ser Gly Leu Ser Ile Cys  
 35 40 45



Gly Glu Arg Cys Val Ala Ile Ala Ala Gly Leu His Gly His Leu Ser  
 50 55 60

Thr Thr Arg Val Leu Trp Thr Trp Ser Asn His Arg Glu Arg Leu Arg  
 65 70 75 80

Val Glu Phe Cys Leu Cys Arg Gly Thr Gly Ala Val Trp Trp Glu Arg  
 85 90 95

Pro Val Pro Gly Glu Thr Leu Glu Thr Leu Arg Glu Pro Leu  
 100 105 110

<210> 1311

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1311

Ala Val Val Thr Ala Xaa Gln Val Pro Lys Gln Val Ser Trp Val Gln  
 1 5 10 15

Gln Asp Thr Pro Pro Phe Gln Gly Ser Trp Tyr Arg Gln Lys Gln Glu  
 20 25 30

Trp Val Leu Ser Cys Cys Arg His Thr Ala Val Val Phe Leu Gln Leu  
 35 40 45

Ser Asn Lys Arg Leu Ser His Arg Pro Glu Leu Pro Trp Tyr Val Val  
 50 55 60

Lys Ser Lys Thr Ser Ser Leu Gly Tyr Leu Ser Ser Phe Met Lys Gln  
 65 70 75 80

Val Leu Arg Thr Arg Lys Asn His Leu Pro Pro Ser Phe Val Arg Gln  
 85 90 95

Asn Gln Val Lys Gly Asn Met Leu Glu Asn Val Pro Arg Glu Asp Thr  
 100 105 110

Ser Thr Phe Ala Leu Ser Asn Pro Ser Ser Glu Lys Gly Val Pro Trp  
 115 120 125

Pro Gln Lys Glu Leu Pro Ser Phe Gly Glu Glu  
 130 135

&lt;210&gt; 1312

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1312

Ala Glu Ala Glu Val Thr Pro Pro Glu Glu Gln Gln Glu Ala Glu Glu  
1 5 10 15

Pro Lys Ala Arg Val Leu Arg Ser Lys Ser Leu Cys His Asp Glu Ile  
20 25 30

Glu Asn Leu Leu Asp Ser Asp His Arg Glu Leu Ile Gly Asp Tyr Ser  
35 40 45

Lys Ala Phe Leu Leu Gln Thr Val Asp Gly Lys His Gln Asp Leu Lys  
50 55 60

Tyr Ile Ser Pro Glu Thr Met Val Ala Leu Leu Thr Gly Lys Phe Ser  
65 70 75 80

Asn Ile Val Asp Lys Phe Val Ile Val Asp Cys Arg Tyr Pro Tyr Glu  
85 90 95

Tyr Glu Gly Gly His Ile Lys Thr Ala Val Asn Leu Pro Leu Glu Arg  
100 105 110

Asp Ala Glu Ser Phe Leu Leu Lys Ser Pro Ile Ala Pro Cys Ser Leu  
115 120 125

Asp Lys Arg Val Ile Leu Ile Phe His Cys Glu Phe Ser Ser Glu Arg  
130 135 140

Gly Pro Arg Met Cys Arg Phe Ile Arg Glu Arg Asp Arg Ala Val Asn  
145 150 155 160

Asp Tyr Pro Ser Leu Tyr Tyr Pro Glu Met Tyr Ile Leu Lys Gly Gly  
165 170 175

Tyr Lys Glu Phe Phe Pro Gln His Pro Asn Phe Cys Glu Pro Gln Asp  
180 185 190

Tyr Arg Pro Met Asn His Glu Ala Phe Lys Asp Glu Leu Lys Thr Phe  
195 200 205

Arg Leu Lys Thr Arg Ser Trp Ala Gly Glu Arg Ser Arg Arg Glu Leu  
210 215 220

Cys Ser Arg Leu Gln Asp Gln  
225 230

<210> 1313

<211> 312

<212> PRT

<213> Homo sapiens

<400> 1313

Ala Ala Val Ile Pro Ser Leu Gly Phe Leu Pro Gly Leu Pro Arg Ala  
1 5 10 15

Arg Ser Arg Ala Gly Pro Glu Gln Pro Lys Met Ala Asp Phe Asp Asp  
20 25 30

Arg Val Ser Asp Glu Glu Lys Val Arg Ile Ala Ala Lys Phe Ile Thr  
35 40 45

His Ala Pro Pro Gly Glu Phe Asn Glu Val Phe Asn Asp Val Arg Leu  
50 55 60

Leu Leu Asn Asn Asp Asn Leu Leu Arg Glu Gly Ala Ala His Ala Phe  
65 70 75 80

Ala Gln Tyr Asn Met Asp Gln Phe Thr Pro Val Lys Ile Glu Gly Tyr  
85 90 95

Glu Asp Gln Val Leu Ile Thr Glu His Gly Asp Leu Gly Asn Ser Arg  
100 105 110

Phe Leu Asp Pro Arg Asn Lys Ile Ser Phe Lys Phe Asp His Leu Arg  
115 120 125

Lys Glu Ala Ser Asp Pro Gln Pro Glu Glu Ala Asp Gly Gly Leu Lys  
130 135 140

Ser Trp Arg Glu Ser Cys Asp Ser Ala Leu Arg Ala Tyr Val Lys Asp  
145 150 155 160

His Tyr Ser Asn Gly Phe Cys Thr Val Tyr Ala Lys Thr Ile Asp Gly  
165 170 175

Gln Gln Thr Ile Ile Ala Cys Ile Glu Ser His Gln Phe Gln Pro Lys  
180 185 190

Asn Phe Trp Asn Gly Arg Trp Arg Ser Glu Trp Lys Phe Thr Ile Thr  
195 200 205

Pro Pro Thr Ala Gln Val Val Gly Val Leu Lys Ile Gln Val His Tyr

210	215	220
Tyr Glu Asp Gly Asn Val Gln Leu Val Ser His Lys Asp Val Gln Asp		
225	230	235 240
Ser Leu Thr Val Ser Asn Glu Ala Gln Thr Ala Lys Glu Phe Ile Lys		
245	250	255
Ile Ile Glu Asn Ala Glu Asn Glu Tyr Gln Thr Ala Ile Ser Glu Asn		
260	265	270
Tyr Gln Thr Met Ser Asp Thr Thr Phe Lys Ala Leu Arg Arg Gln Leu		
275	280	285
Pro Val Thr Arg Thr Lys Ile Asp Trp Asn Lys Ile Leu Ser Tyr Lys		
290	295	300
Ile Gly Lys Glu Met Gln Asn Ala		
305	310	

<210> 1314  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (246)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (249)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (256)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1314  
 Ala Phe Asn Ala Leu Val Thr Phe Cys Ile Arg Asp Leu Ile Gly Cys  
 1 5 10 15

Leu Gln Lys Leu Leu Phe Gly Lys Val Ala Lys Asp Ser Ser Arg Met  
20 25 30

Leu Gln Pro Ser Ser Ser Pro Leu Trp Gly Lys Leu Arg Val Asp Ile  
35 40 45

Lys Ala Tyr Leu Gly Ser Ala Ile Gln Leu Val Ser Cys Leu Ser Glu  
50 55 60

Thr Thr Val Leu Ala Ala Val Leu Arg His Ile Ser Val Leu Val Pro  
65 70 75 80

Cys Phe Leu Thr Phe Pro Lys Gln Cys Arg Met Leu Leu Lys Arg Met  
85 90 95

Val Val Val Trp Ser Thr Gly Glu Glu Ser Leu Arg Val Leu Ala Phe  
100 105 110

Leu Val Leu Ser Arg Val Cys Arg His Lys Lys Asp Thr Phe Leu Gly  
115 120 125

Pro Val Leu Lys Gln Met Tyr Ile Thr Tyr Val Arg Asn Cys Lys Phe  
130 135 140

Thr Ser Pro Gly Ala Leu Pro Phe Ile Ser Phe Met Gln Trp Thr Leu  
145 150 155 160

Thr Glu Leu Leu Ala Leu Glu Pro Gly Val Ala Tyr Gln His Ala Phe  
165 170 175

Leu Tyr Ile Arg Gln Leu Ala Ile His Leu Arg Asn Ala Met Thr Thr  
180 185 190

Arg Lys Lys Glu Thr Tyr Gln Ser Val Tyr Asn Trp Gln Tyr Val His  
195 200 205

Cys Leu Phe Leu Trp Cys Arg Val Leu Ser Thr Ala Gly Pro Ser Glu  
210 215 220

Ala Ser Ser Pro Trp Ser Asn Pro Leu Xaa Pro Ser His His Trp Leu  
225 230 235 240

Tyr Gln Ala His Pro Xaa Cys Pro Xaa Leu Thr Arg Cys Glu Cys Xaa  
245 250 255

Ala Ser Val Ala  
260

&lt;210&gt; 1315

